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**FIGURE 654**

MAFARLLRGPLSGPLLGRRGVCAGAMAPRRFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSL  
CVPVTPDAGCGARVRAARLHQRLRHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPDDPDTRQALLELL  
GACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVFPDREAARAVLEE  
CTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT  
IIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHHFVYQWPEDLLKPDILLLL  
TVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

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**FIGURE 655**

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTTCGGCGCTCGCCC  
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGCGCCCGCCCATGGAGAAGACTGAGCTGATCCAGAAGGCCA  
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC  
TGTCACACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAACGTGGTTCGGGGGCCGAGGTCCGCTGGAGGG  
TCATCTCTAGCATCGAGCAGAAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG  
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGTGGAATTGTTGGATAAAATATTTAATAGCCAATGCAACTA  
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG  
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGC  
AACCACACACCCAATCCGCCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG  
AGCTTGCTGACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACCTTGATACTGAATGAAGACTCAT  
ACAAAGACAGCACCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAGGAGAAG  
AATGTGATGCGGCAGAAGGGGCTGAAAACTAAATCCATACAGGGTGTCTATCCTTCTTTCCTTCAAGAAACCTTTT  
TACACATCTCCATTCTTATTCCACTTGGATTTCCTATAGCAAAGAAACCCATTCATGTGTATGGAATCAACTGT  
TTATAGTCTTTTACACTGCAGCTTTGGGAAAACCTTATTCTTGTATTGTTGTTGCTTGGCCTTCTGTTGTG  
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTTATATAAACATAAGTAACTCCCAAACACTTATGTAGAGG  
ACTAAAAATGTATCTGGTATTTAAGTAATCTGAACCAGTTCTGCAAGTGAAGTGTGTTTTGTATTACTGTGAAAT  
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATTCCACATAACTTCTTAATTTCTACATTCCCTCCCTTACTCT  
TCGGGGGTTTTCTTTTCAAGTAAGCAACTTTTCCATGCTCTTAATGTATTCTTTTCTTAGTAGGAATCCGGAAGTATT  
AGATTGAATGGAAAAGCACTTGCCATCTCTGTCTAGGGGTCACAAATTGAAATGGCTCCTGTATCACATACGGAG  
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCTTATTCACTCTTTATTTGCTGCTGTTTAAGTTGCCAACCTCCC  
CTCCCAATAAAAAATTCACCTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAAGTAGCA  
TGTTGCTGCCAGAATACAAGCATTGCTTTTGGCAAATTAAAGTGCATGTCATTTCTTAATACACTAGAAAGGGGA  
AATAAATTAAGTACACAAGTCCAAGTCTAAAACCTTTAGTACTTTTCCATGCAGATTTGTGCACATGTGAGAGGG  
TGTCCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCACTATTGTGTGTTGCTAATCATTGACTGTAGTCC  
CAAAAAAGCCTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAAAATAAAGTACATTTTATAAACC  
ATTTACTATGGCTTTGTAAACAATTGCATACCCATATTTTAAAGGGACAGGTGAATTTACTACTTTCTAAAGTTTAT  
TGATACTTCCCTTTTATGTAATAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA  
GGGATGCCTGGAAGTGATAAAATTGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC  
TCTTCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAACTA



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**FIGURE 656**

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGGRSAWRVISSIEQKTDTSDDK  
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLMKGDYFRYLAEVACGDDRKQIDNSQGAYQ  
EAFDISKKEMQPTHP IRLGLALNFSVFYIEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL  
TLWTSDSAGEECDAAE GAEN

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**FIGURE 657**

GGCACGAGGCTCCGGTGTGTCTGTGCGTTGCAGTGTGGAGGTCGGCGCCGGCCCCCGCCTTCCGCGCCCCCAC  
GGGAAGGAAGCACCCCGGTATTAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCGGGAGGCGAGCCG  
ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCAGACCTCGAGTTTACTCGCTACAG  
CCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCGGACTCGACCCCCCGGGGAGGACATCTGG  
AAGAAGTTTGAGCTGCTGCCACGCCCCCGCTGTGCGCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCG  
AGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGGAGGACGCGTTCGGCCTGGGG  
GGA CTGGGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCCGCGAGAAG  
CTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCAACCGCCGGTTCCACCGCCAGTCCCGG  
GGAGCCGGCGCCGCCAGCCCTGCGGGTTCGCGGGCACGGCGGGGCTGCGGGAGCCGGCCGCGCCGGGGCCGCCCTG  
CCCCCGGAGCTCGCCACCCGGCCGCCGAGTGCCTGGATCCCGCCGTGGTCTTCCCTTTCCCGTGAACAAGCGC  
GAGCCAGCGCCCGTGCCTCGCAGCCCCGGCCAGTGCCCCGGCGGGCCCTGCGGTGCGCTCGGGGGCGGGTATT  
GCCGCCCCAGCCGGGGCCCCGGGGTTCGCCCCCTCCGCGCCAGGCGGGCCGCCAGACCAGCGGCGGCGACACAAG  
GCCCTCAGTACCTCCGGAGAGGACACCCTGAGCGATTGAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAA  
GAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTTCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACT  
GTGCGTCCCAAGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCC  
ATCCACCAGCAGCACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATA  
AAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTATCCCCCAAAGGCTAAGAGCTTGAGCCCCGAAACTCT  
GACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGC  
TTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTGAAAAAG  
GCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAGGAAAAATTGCAGGCAAGA  
CAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGCTTAGACGCTTCTCAAACTGGACAGTCACTGCCA  
CTTTGCACATTTTGATTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAATGTTGGTTTACTTTCAAATCGGT  
CCCCGTGCGAGTTCGGCTCTGGGTGGGCAGTAGGACCACCAGTGTGGGGTCTGCTGGGACCTTGAGAGCCCTGC  
ATCCAGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGACGGTTG  
GGAGCCTCTGGGGCTGTTGAAGTCACCTTGTTGTTTCCAAGTTTCCAAACAACAGAAAGTCATTCTTTCTTTTA  
AAATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATACCCCTGGGGAACATTTCTGTAAA  
TACCATTGACACATCCGCCTTTTGTATACATCCTGGGTAAATGAGAGGTGGCTTTTGCGGCCAGTATTAGACTGGA  
AGTTCATACCTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTGTATACAAATATATTGTTAATCT  
CTGTTATGTACTGTACTAATTCTTACACTGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTGATAC  
TTATATTTTCGTATGAAAATGAGTTGTGAAAGTTTTGAGTAGATATTACTTTTCACTTTTGAACATAAGAACT  
TTTGTAAGAAATTTACTATATATATATGCCTTTTTCTAGCCTGTTTCTTCTGTTAATGTATTTGTTTCATGTT  
TGGTGATAGAACTGGGTAAATGCAAAGTTCTGTGTTAATTTCTTCAAATGTATATATTTAGTGCTGCATCTT  
ATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAATTAATAAAAAAAAAAAAAAAAAA

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**FIGURE 658**

MPSCSTSTMPGMICKNPDLEFDSLQPCFYDDEDDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEHSSEPP  
SWVTEMLLENELWGSPAEDAFGLGGLGGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGPPTAGSTAQSP  
GAGAASPAGRGHGGAAGAGRAGAALPAELAHFAAECVDPVVFFPVNKPAPVPAAPASAPAAGPAVASGAGI  
AAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTLSDSDDDEDEDEDEEIDVVTVEKRRSSNTKAVTTFTIT  
VRPKNAALGPGRASSELILKRCLPIHQHNYAAPSPYVESEDAPPQKKIKSEASPRPLKSVIPPKAKSLSPRNS  
DSEDSERRRNHNILRQRRNDLRSSFLTLDHVPPELVKNEAKKVILKKATEYVHSLQAEHQLLLEKEKLQAR  
QQQLLKKIEHARTC

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**FIGURE 659**

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG  
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGCGCGGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCA  
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCCTGGGCGCTCTGAGATTGTCACTGCTGTTCCA  
AGGGCACACGCAGAGGGATTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAAATATTTCTTTCAATTCC  
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATCATGAACAACCTTTGGTAATGAAGAGTTTGAAGTCCACTTCCT  
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTTCTGATGATAAGGATGC  
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAAGCTCTCCCTCGTGTCAACCC  
CTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCCCTTGCTGCTACCGGGACAGGATTTGACTG  
TGCTAGCAAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCCTCCAGAGAGGATTATCTATGCAAATCCTTG  
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT  
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG  
TCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT  
CGATGTTGTTGGTGTGAGCTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA  
TGCCCGCTGTGTTTTTGACATGGGGGCTGAGGTTGGTTTTGACATGTATCTGCTTGATATTGGCGGTGGCTTTCC  
TGGATCTGAGGATGTGAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTTCC  
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCAAGTAA  
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT  
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAAGCCCTT  
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTATTATTATCCAGCATATGGGGACCAACATGTGATGGCCTCGA  
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA  
CACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTG  
GCAACTCATGCAGCAATTCCAGAACCCGACTTCCACCCGAAGTAGAGGAACAGGATGCCAGCACCTGCCTGT  
GTCTTGTCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTGTAGATAGC  
ACTCTGGTAGCTGTAACTGCAAGTTTAGCTTGAATTAAGGGATTGGGGGGACCATGTAACCTTAATTACTGCTA  
GTTTTGAAATGTCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTACACTTA  
TCTGTGTTCCATGGAACCTATTTGAATATTTGTTTTATATGGATTTTATTCACTCTTCAGACACGCTACTCAA  
GAGTGCCCCCTCAGCTGCTGAACAAGCATTTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA  
CCTGTTTTTAAATAAAGTATCTTGAAATAATTAGGC

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**FIGURE 660**

MNNFGNEEFDC HFLDEGFTAKDILDQKINEVSSSSDDKDAFYVADLGDILKKHLRWL KALPRVTFPFYAVKCND SKA  
IVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAAANNGVQMMTFDSEVELMKVARAHPKAK  
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVSGCTDPETFVQAISDARCVFDMGAEV  
GFSMYLLDIGGGFPGSEDVKLKFEIITGVINPALDKYFSPDSGVRIIAEPGRYYVASAFTLAVNIIAKKIVLKEQ  
TGSDDDEDESSEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEM  
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQFQNPDPFPEVEEQDASTLPVSCAWESGMKRH  
RAACASASINV

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**FIGURE 661**

ATGAGTCAGCAGCGGCCGCGAGGAAGTTACCCAGTCTCCTCCTGGACCCGACGGAGGAGACGGTTCGCCGTCGG  
TGCCGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATTTAGAAGATAATGTACAATAT  
GTGTCCATGAGAAAAGCTCTAAAAGTGAAGAGACCTCGTTTTGATGTATCGCTGGTTTTATTTAACTCGAAAATTT  
ATGGATCTTGTGATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAACGAAACTGGGAGTCCGAAAG  
CGGAGAGTGTATGACATCACCAATGTCTTAGATGGAATCGACCTCGTTGAAAAGAAATCCAAGAACCATATTAGA  
TGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACAGGAGGAACTTTCTGACTTA  
TCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTTTGAGTTAACAGATGACAAA  
GAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTTCAGGCCTTCCATGAACAGATCGTCATT  
GCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTCTATCACAGTGCACATAAGG  
AGCACCAACGGACCTATCGATGTCTATTTGTGTGAAGTGGAGCAGGGTCAGACCAGTAACAAAAGGTCTGAAGGT  
GTCGGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAATCCTCAGCAAAAGTGAAGAA  
TTGCTTGAAGTAAGCAACTGATGGCATTGAGAAATTTATGTATCACTGAGTTTTTTGGGAATATCTTCGTGGAGA  
ATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTTCTCAGTAGCGGCATCATGG  
CCAGTAGTGTCTTTGAGGAGTTACCACTTAGATTACTGAGTAATTGTGGTTTTCCACATTTGAAAACAACCTCCTT  
TTATAATTATTCAGTGCTTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAGCTTCATCACAGAGTGTCTAT  
GAAGACAGACAGTCAGGCTGAAATGGACAGTTCTTTGTGGACTCTACCCTTCCCTTCAAGGAGTATGTCATATAT  
CACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCATAGATGTACACACGAATTT  
AAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGTCTGAGTGACACTTTTCACC  
CTTGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATTCCTAATCTCTTTGGTACCTATAACTTAT  
TAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAAGTATCATAAATGTGCTACA  
CATTTATGTTTGTGGATTTAATTAAAGTATTTAATATGGTTTTTCAGTGCTAAAATTGGAGTCAGATACTTCTTG  
GTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGACTGGTGGCATGCCAGTGGCTTTGGGGGCAAGGATAG  
AAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGATAATTGGAAACTCCTTTCA  
GGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAGTCCAAGGGGTTTTACTTAG  
GACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCACATACCTAGCTGTTTCTACCTCATTGGG  
TAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTGAGCTCCTTGAGGGACTTTG  
TCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGCTCAATAAATGTCTGAACAA  
ATAA

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**FIGURE 662**

CTCTGTAGCTGTGACCCTGATACCGCTGGTGTGCTCCGAACACATGGTGCCCAAGCAAGGCGGCGTCCAGAA  
GCCCTAGGTCCCAGAGGTCCGCTCAGCGGCAGGCGCATAAGGCGGGGCGGCGCGGGCCTTTCTTCCATCGGAA  
CCGTTCTCCCGGGGCTGAGTCCCTGCCCGGACTCCGAACGCCGAAGACCAGGGGCGGGAAGCGCGCGCCGCACT  
GCCACGCCGTGTGAGTCGGGAGGGAGGCGAGCAGGCGAAGCCGCGGAGGACGGGGTGAAGATGCGGCGCTTC  
TCCGAGATGGGTGTAATGCCTGAGATTGCACAAGCTGTGGAAGAGATGGATTGGCTCCTCCCAACTGATATCCAG  
GCTGAATCTATCCCATTGATCTTAGGAGGAGGTGATGTACTTATGGCTGCAGAAACAGGAAGTGGCAAACTGGT  
GCTTTTAGTATTCCAGTTATCCAGATAGTTTATGAAACTCTGAAAGACCAACAGGAAGGCAAAAAAGGAAAAACA  
ACAATTAAACTGGTGCTTCAGTGCTGAACAAATGGCAGATGAACCCATATGACAGAGGATCTGCTTTTGCAATT  
GGGTGAGATGGTCTTTGTTGTCAAAGCAGAGAAGTAAAGGAATGGCATGGGTGTAGAGCTACTAAAGGATTAATG  
AAAGGGAAACACTACTATGAAGTATCCTGTGTCATGACCAAGGGTTATGCAGGGTCGGGTGGTCTACCATGCAGGCC  
TCTTTGGACCTAGGTACTGACAAGTTTGGATTTGGCTTTGGTGGAAACAGGAAAGAAATCCCATAAACAACAATTT  
GATAATTATGGAGAGGAATTCATGATGATACCATTTGGATGTTACCTGGATATAGATAAGGGACATGTCAAG  
TTCTCCAAAATGGAAAAGATCTTGGTCTGGCATTGAAATACCACCACATATGAAAACCAAGCCCTCTTTCTCT  
GCCTGTGTTTTGAAGAATGCTGAACTGAAATTTAACTTCGGTGAAGAGGAATTTAAGTTTCCACCAAAAGATGGC  
TTTGTGCTCTTTCCAAGGCACCGGATGGTTACATTGTCAAATCACAGCACTCAGGTAATGCACAGGTGACACAA  
ACAAAGTTTCTCCCAATGCTCCGAAAGCTCTCATTGTTGAACCTTCCCGGGAGTTAGCTGAACAACTTTGAAC  
AACATCAAGCAGTTTAAGAAATACATTGATAATCCTAAATTAAGGGAGCTTCTGATAATTGGAGGTGTTGCAGCC  
CGGGATCAGCTCTCTGTTTTGGAAAATGGAGTAGATATAGTTGTAGGTACTCCGGGAAGACTAGATGACTTGGTG  
TCAACTGGAAAGCTGAACTTATCTCAAGTTAGATTCTCGGTCTCGGATGAAGCTGATGGGCTTCTTTCTCAAGGT  
TATTCTGATTTTATAAATAGGATGCACAATCAGATTCTCAGGTTACCTCTGATGGAAAAGACTTCAGGTGATT  
GTTTGCTCTGCCACTTTGCATTCTTTGATGTAAAGAACTGTCCGAGAAGATAATGCATTTTCTACATGGGTT  
GACTTAAAAGGAGAAGACTCTGTTCCAGATACTGTACACCATGTTGTTGTCCAGTAAATCCCAAACTGACAGA  
CTCTGGGAAAGGCTTGAAAAGAGCCACATTAGAAGTATGATGTACATGCAAAAGATAACACAAGACCTGGTGCT  
AATAGTCCAGAGATGTGGTCTGAAGCTATTAAATCCTGAAAGGGGAGTATGCTGTCCGGGCAATCAAGGAACAT  
AAGATGGATCAAGCAATTATCTTCTGTAGAACCAAAATTGACTGTGATAACTTGGAGCAGTACTTTATACAACAA  
GGAGGAGGACCTGATAAAAAAGGACACCAGTTCTCATGTGTTTGTCTTCATGGTGACAGAAAGCCTCATGAGAGA  
AAGCAAACTTGGAAAGATTTAAGAAAGGAGATGTAAGATTCTTGATTGACAGATGTAGCTGCTAGAGGAATT  
GATATCCACGGTGTTCTTATGTTATAAATGTCACTCTGCCCGATGAAAAGCAAACTACGTACATCGAATTGGC  
AGAGTAGGAAGAGCTGAAAGGATGGGTCTGGCAATTTCCCTGGTGGCAACAGAAAAAGAAAGGTTTGGTACCAT  
GTATGTAGCAGCCGTGAAAAGGGTGTATAACACAAGACTCAAGGAAGATGGAGGCTGTACCATATGGTACAAC  
GAGATGCAGTTACTATCTGAGATAGAAGAACACCTGAACTGTACCATTTCTCAGGTTGAGCCGGATATAAAGGTA  
CCAGTGGATGAATTTGATGGGAAAGTTACCTACGGTCAGAAAAGGGCTGCTGGTGGTGGAAAGCTATAAAGGCCAT  
GTGGATATTTTGGCACCTACTGTTCAAGAGTTGGCTGCCCTTGAAAAGGAGGCGCAGACATCTTTCTGCATCTT  
GGCTACCTTCCTAACAGCTGTTTCAAGACCTTCTGATTTTTTACATTTACTGAATAAGATTTGAGTAATGAAAGTC  
TGTAAGTCTTAAACTCTAAACAGTTGTACTGCTTCCAAGCAGCAGTATTTATAGTAACGTAAGCTATTAATGCT  
AACTCTTGATGTCAAGAAACATTAGTCTTAGGAATTCTTCAAAAAATGGCATCCCAATGAAAATAAATTTGATG  
ACTATA

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**FIGURE 663**

MAAFSEMGVMEIAQAVEEMDWLLPTDIAESIPLILGGGDVLMAAETGSGKTGAFSIPVIQIVYETLKDQQEGK  
KGKTTIKTGASVLNKWQMNPDYDRGSAFAIGSDGLCCQSREVKWHGCRATKGLMKGKHYYEVSCHDQGLCRVGWS  
TMQASLDLGTDKFGFGGTGKKSHNKQFDNYGEEFTMHDTIGCYLDIDKGHVKFSKNGKDLGLAFEIPPHMKNQ  
ALFPACVLKNAELKFNFGEFEFKFPPKDGVALSKAPDGYIVKSQHSNAQVTQTKFLPNAPKALIVEPSRELAE  
QTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGTPGRLDDLSTGKLNLSQVRFLVLDEADGL  
LSQGYSDFINRMHNQIPQVTS DGKRLQVIVCSATLHSFDVKKLSEKIMHFPTWVDLKGEDSVPD TVHHVVVPVNP  
KTDRLWERLGKSHIRTD DVHAKDNTRPGÅNSPEMWSEAIKILKGEYAVRAIKEHKMDQAIIFCRTKIDCDNLEQY  
FIQQGGGPDKKGHQFSCVCLHGDRK PHERKQNLERFKKG DVRF LIC TDVAARGIDIHGVPYVINVTLPDEKQNYV  
HRIGRVGRAERMGLAISLVATEKEKVWYHVCSSRGKGCYNTRLKEDGGCTI WYNEMQLLSEIEEHLNCTISQVEP  
DIKVPVDEFD GKVTYGGQKRAAGGGSYKGHVDILAPTVQELAALEKEAQT SFLHLGYLPNQLFRTF



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**FIGURE 664A**

GAACATGGCGGCCCCGAGTCAGGGCCGGCTTTGAGTCCAGGCACTGCAGAGGCCTAGAGGCAACCAAAACATG  
GTGCATCCTTTATCATCACGAAAGCAATTCGAGATCGTTTATTATTTTTACGCCAATACATCTGGTACAGCCCGG  
CACCTTTTTTGGCTCCCTGATGGACTGGTTCGCTTGGTTAATAAACAGATAAACTGGCATTGTTGCTTGAAGCA  
ATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGTCTG  
CCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTCATGACATGGTAGACCAACTGGAACAAATT  
CTCAGTGTGTGAGAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTTCATTTGTTAAAAACACTCAATCTAGC  
TCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTGCTGAGTCT  
CATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCCTGC  
TATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCCTTGAAAACATCCACCTGGCTGGACAGATGATGCAC  
TGCAGTGTCTTGTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCAGCTACGAA  
AAGAGTATTGACTTGGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCTTCTACCAACCTCACTGATAGCTGCATG  
GATCTAGCCAGGTGCTGCTTACAACTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATCCAA  
GCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCATTGTGCCCTGATCGGATCAGT  
CTCATCAAGGAGTGTATTTCCAGTCCCCCACATGCTATAACAATCCACCAAGCTTCTGGGCTTGTGAGCTG  
CTGAGGGTTGCAGGTGAGAACCCAGAAAGAAAGGCGGGGACAGGTTCTAATCCTTTTAGTGAGCAGGCACCTTCGC  
TTCCATGACTACAAAGCAGCCAGTATGCATTGTGAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATGTT  
TGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGTCTTGACA  
CATTGCCCTCCTAGCAGCATTGAACTTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATCTTTATCAAAGA  
GTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTACCATTAACTAGTAAAGCAGTACAAGAG  
GATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCCTT  
TCCAACACCACAACCACCACCAAAAGCGGTGCTGCAGGCCGTGCTGATGGGCAGTGGTGGAAAGATCTTTAACT  
TACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCATATCAAATCGGAACTACAGCCAATGAAGATCTAGAG  
AAACAAGGGTGTATCCTTTTTATGAATCTGTCATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATGAC  
ACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAACTGGAAAATTGGCAGAGGCTAAAAAT  
AAAGGAGAAGTATTTCCAACAACCTGAAGTTCTCTTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCTTG  
GCTCTTGCTTACCTTCTTGCTTACCACAAGTGTTAGATGCTAACCGGTGCTTTGAAAAGCAGTCCCCCTCTGCA  
TTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACAAG  
TGCCATCCTCTTTACAGGGCTGATCCCAAGAATAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGCAC  
GAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCCTGGATTTCACT  
CAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAAGTATAAAGG  
GAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTTAC  
AGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCTCTTACGGACAGTGGTTGTCCACACTAGAA  
ATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTCACCAGCACATG  
GTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAAAC  
TGTGGCTGTGAGATTGAGGAACTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTAAGGTT  
GTTGCATCAGGTCTTAATTACAAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTCTT  
TCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCTGAAAGGATGGACAGATGCTTTCCCCA  
AGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCAGGC  
TCTTCACCGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCATC  
ACTGTGGTAGATGCAGTTACATTTTCTCCAAAGCTGTGACCAAGCTGTCTGTGGAAGCCCGTAAAGAGATGACT  
AGAAAGGCTATTAAGACAGTCAAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAGAA  
GCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAAACCTG  
AGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATCTG  
TCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGATT  
CAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCCAAGGATATAGTGACAGAGTGCAATCATGAAA  
ATAATTTCTGCATTGAGTGGTGGCAGTGTGACCTTGGTGGGCCAAGGGACCCACTGAAGGTCTGGAAGGTGTT  
GTTGCAGCAGTCCACGCCAGTGTGGACAAGGGTGAGGAGCTGGTTTACCTGAGGACCTGCTGGAGTGGCTGCGG  
CCTTCTGTGCTGATGACGCTGGCCGGTGGCGCCCCGCATTACGTGCTGCAGATTTTGGGGCAATCATTTTAC

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**FIGURE 664B**

CTGACTGAGGAGGACAGCAAGCTCCTCGTGTTCTTTAGAACTGAAGCCATTCTCAAAGCCTCCTGGCCCCAGAGA  
CAGGTAGACATAGCTGACATTGAGAAATGAAGAGAACCGCTACTGTCTATTCATGGAACCTCCTGGAATCTAGTCAC  
CACGAGGCTGAATTTACGCACTTGGTTTTACTTTTGCAAGCTTGGCCACCTATGAAAAGTGAATATGTCATAACC  
AATAATCCATGGGTGAGACTAGCTACAGTGATGCTAACCAGATGTACGATGGAGAACAAAGGAAGGATTGGGGAAT  
GAAGTTTTGAAAATGTGTCGCTCTTTGTATAACACCAAGCAGATGCTGCCTGCAGAGGGTGTGAAGGAGCTGTGT  
CTGCTGCTGCTTAACCAGTCCCTCCTGCTTCCATCTCTGAACTTCTCCTCGAGAGCCGAGATGAGCATCTGCAC  
GAGATGGCACTGGAGCAAATCACGGCAGTCACTACGGTGAATGATTCCAATTGTGACCAAGAACTTCTTTCCCTG  
CTCCTGGATGCCAAGCTGCTGGTGAAGTGTGTCTCCACTCCCTTCTATCCACGTATTGTTGACCACCTCTTGGCT  
AGCCTCCAGCAAGGGCCTGCGGATGCAGAGGAGCTGGGCAGACACCTGCGGGAGGCCGCCATGAAGCCGAAGCC  
GGGTCTCTCCTTCTGGCCGTGAGGGGGACTCACCAGGCCTTCAGAACCTTCAGTACAGCCCTCCGCGCAGCACAG  
CACTGGGTGTGAGGGCCACCTGTGGCCCTGCTCCTTAGCAGAAAAAGCATCTGGAGTTGAATGCTGTTCCCAGAA  
GCAACATGTGTATCTGCCGATTGTTCTCCATGGTTCCAACAAATTGCAAATAAACTGTATGGAAACG

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**FIGURE 665**

ATGGATCTCGGCTGCGAAGTGTGTCATCAGCATCTGGCTTTCTGGGTTATGATGTGGTCAGGGATGTGTCTTCT  
GGCCCATTTTGGAGGCGCAAAAATGGTGATCCATGTTTGGATTTATGTGGAAGGGACAGTTCCACAGTATGGAAA  
AGGGGAGACAGTCCCAGGAAGCGTGAAGAGGAAAGGTCATTGGGAATCTCTCAGTACCTCTGCCCTAATCTCTTC  
TCTCCTACGGAGGCAGTTAAGTCTAAAGCCATTTGTCTGGTTTCCATATCTGAACTTCAAGCAGCATCTTCTGGA  
CTTAGTTCTTGGTGGCTGGAGCAGGGAAGTGTGGCCTCATTGAAATGGGATCAGGTTTCAGGATGTTTCATGTG  
TCTGTGTCTTTCTCACACATTGTGAGGAACAGGACAGTCCCTCTGATGCGCTGGTACCTGGCCGCCATGCAGATC  
ATGAGGGGAGAGAAGCAGGCTGCTTCGGGGAATCCTGCCATAGAGGCTGGAGCTTCATGTGCATCTCAGCCAGCC  
CTGCAGCAGCCCTCAGCAGCCCTTCTGTGGGGCTGGGGTATCTGTTGCCAGGAAATCACTGGGCTGAGGAAGTA  
GGAGATGAATGGCTCTGTGCTATCACACCATCTTCTGCATTGAGTCTTCTTCGCTTTCTTATCATCGTCATCATG  
ATTATCATCAATAAATTTGTAAGGAAGGAAACAGGACTGCTTATTGATTTTCATTTCTATGCTACTGAGAGCCAA  
GGCTACGGATTTCTTTCCCCAGGAATGGAGAGAGGAAAGAGATGTGAGATTGGCTACCCAACCTGTTGCATCAGTA  
CCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTCGCT  
GAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGAGATGGAGGAGTGGAGGGGTGATGATAAAATGGAA  
GCTCCCGTGTCAAGAGATCAGGCAAATGGGGAGACTCCGTGGGATCCTCTGAAGAATCTACATGCACGTACTTAC  
GAGAATCAGATTAGGGATGCCTACCACACAGGAGTACCAATGTTTAGTATTAGCCCGTAA

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**FIGURE 666**

MRSRLRSVSSASGFLGYDVVRDVSSGPFWRRKNGDPCLDLCGRDSSTVWKRGDSPRKREEERSLGISQYLCPNLF  
SPTEAVKSKAICLVSISELQAASSGLSSWWLEQGKCGLIEMGSGFRMFHVSVSFSHIVRNRTVPLMRWYLAAMQI  
MRGEKQAASGNPAIEAGWERTGAQM

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**FIGURE 667**

CGCGAAGAAGCTGGCAGGGGCACGAGCCGGGGGCGGGTTTGAAGACGCGTCGTTGGGTTTTGGAGGCCGTGAAAC  
AGCCGTTTGAGTTTGGCTGCGGGTGGAGAACGTTTGTGAGGGGCCCGGCCAAGAAGGAGGCCCGCCTGTTACGAT  
GGTGTCCATGAGTTTCAAGCGGAACCGCAGTGACCGGTTCTACAGCACCCGGTGCTGCGGCTGTTGCCATGTCCG  
CACCGGGACGATCATCCTGGGGACCTGGTACATGGTAGTAAACCTATTGATGGCAATTTTGCTGACTGTGGAAGT  
GACTCATCCAAACTCCATGCCAGCTGTCAACATTCAGTATGAAGTCATCGGTAATTACTATTTCGTCTGAGAGAAT  
GGCTGATAATGCCTGTGTTCTTTTTGCGTCTCTGTTCTTATGTTTATAATCAGTTCAATGCTGGTTTATGGAGC  
AATTTCTTATCAAGTGGGTTGGCTGATTCCATTCTCTGTTACCGACTTTTTGACTTCGTCCTCAGTTGCCTGGT  
TGCTATTAGTTCTCTCACCTATTTGCCAAGAATCAAAGAATATCTGGATCAACTACCTGATTTTCCCTACAAAGA  
TGACCTCCTGGCCTTGGACTCCAGCTGCCTCCTGTTTATTGTTCTTTGCTTCTTTGCCCTTATTATCATTTTTAA  
GGCTTATCTAATTAACCTGTGTTTGGAACTGCTATAAATACATCAACAACCGAAACGTGCCGGAGATTGCTGTGTA  
CCCTGCCTTTGAAGCACCTCCTCAGTACGTTTTGCCAACCTATGAAATGGCCGTGAAATGCCTGAAAAAGAACC  
ACCACCTCCTTACTTACCTGCCCTGAAGAAATCTGCCTTTGACAATAAATCCTATACCAGCTTTTTGTTTTGTTA  
TGTTACAGAAATGCTGCAATTCAGGGCTCTTCAAACCTGTTTGATATAAAATATGTTGCTTTTTGTTTAAGCATTT  
ATTTTCAAACACTAAGGAGCTTTTTGACATCTGTTAAACGCTTTTTGTTTTTTTTGTTAAGTCTTTTACATTTA  
ATAGTTTTTGAAGACAATCTAGGTTAAGCAAGAGCAAAGTGCCATTGTTTGCCTTTAATTGGGGGGTGGGAAGGG  
AAAGAGGGTACTTGCCACATAGTTTCCTTTTTAACTGCACCTTCTTTATATAATCGTTTGCATTTTGTTACTTGC  
TACCCTGAGTACTTTCAGGAAGACTGACTTAAATATTCGGGGTGAGTAAGTAGTTGGGTATAAGATCTGAACCTT  
TCATCTGCAGAGGCAAGAAAAATATTGACATTGTGACTTGACTGTGGGAAGATGATGGTTGCATGTTTCTAGTTT  
GTATATGTTTCCATCTTTGTGATAAGATGATTTAATAAATCTCTTTAAATACTT

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**FIGURE 668**

MVSMSEFKRNRSDRFYSTRCCGCCHVRTGTIILGTWYMVVNLLMAILLTVEVTHPNSMPAVNIQYEVIGNYYSSER  
MADNACVLFAVSVMFISSMLVYGAIQVGVWLIPIFFCYRLDFVLSCLVAISSLTYPRIKEYLDQLPDFPYK  
DILLALDSSCLLFIVLVFFALFIIFKAYLINCWNCYKYINNRRNVPEIAVYPAFEAPPQYVLEPTYEMAVKMPEKE  
PPPPYLP

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**FIGURE 669**

GCGGCTTGCGGGGACCACAGCTCCCGAAAGCGACGTTTCGGCCACCGGAGGAGCGGGAGCCAAGCAGGCGGAGCTC  
GGCGGGAGAGGTGCGGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGG  
ACCCTGCAGCCCTCGCCTGGGACAGCGGCGCGCTGGGCAGGCGCCCAAGAGAGCATCGAGCAGCGGAACCCGCGA  
AGCCGGCCCGCAGCCGCGACCCGCGCAGCCTGCCGCTCTCCCGCCGCCGGTCCGGGCAGCATGAGGCGCGCGGCG  
CTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCCCTGCCGCAAATTGTGGCTACTAATTTGCC  
CCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAACTTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATC  
ACCTTGTCACAGCAGACCCCTCCACTTGGAAGGACACGCAGCTCCTGACGGCTATTCCACGTCTCCAGAACCC  
ACCGGCCTGGAGGCTACAGCTGCCTCCACCTCCACCCTGCCGGCTGGAGAGGGGCCCAAGGAGGGAGAGGCTGTA  
GTCCTGCCAGAAGTGGAGCCTGGCCTCACCGCCCGGGAGCAGGAGGCCACCCCCGACCCAGGGAGACAGCATCA  
GGGTTAAGAAGACTTTTTTTTTTTTTTTTAACTAGGAGAACCAAATCTGGAAGCCAAAATGTAGGCTTAGTTT  
GTGTGTTGTCTCTTGAGTTTGTGCTCATGTGTGCAACAGGGTATGGACTATCTGTCTGGTGGCCCCGTTTCTGG  
TGGTCTGTTGGCAGGCTGGCCAGTCCAGGCTGCCGTGGGGCCGCCGCCTCTTTCAAGCAAGGCCAGAGGCCCCCA  
GCCCAGGGCTCCTGCACCTTACTTGCTTATTTGACAACGTTTCAGCGACTCCGTTGGCCACTCCGAGAGGTGGGCC  
AGTCTGTGGATCAAGAGATGCACCACCAAGCCAAGGGAACCTGTGTCCGGTATTCGATACTGCGACTTTCTGCCTG  
GAGTGTATGACTGCACATGACTCGGGGGTGGGGAAAGGGTTCGGCTGACCATGCTCATCTGCTGGTCCGTGGGAC  
GGTGCCCAAGCCAGAGGCTGGGTTCATTTGTGTAACGACAATAAACGGTACTTGTCATTTCCGGGC

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**FIGURE 670**

ACTGCGCGCCCCGCGGAGTCCCCGCGCCGTCATGCAGTCCCCGGCGGTGCTCGTCACCTCCAGGCGACTTCA  
GAATGCCCACACTGGCCTCGACCTGACTGTGCCCCAGCACCAGGAGGTACGGGGCAAGATGATGTCTGGACACGT  
GGAGTACCAGATCCTGGTGGTGACCCGTCTGGCTGCGTTCAAGTCGGCCAAGCACAGGCCCCGAGGATGTCGTCCA  
GTTCTTGGTCTCCAAAAAGTACAGCGAGATTGAGGAGTTTTACCAGAACTGAGCAGTCGTTATGCAGCAGCCAG  
CCTCCCCCACTACCCAGGAAGGTCCTGTTTGTGGGGAGTCTGACATCCGGGAGAGGAGAGCCGTGTTCAATGA  
GATCCTGCGCTGTGTCTCCAAGGATGCCGAGTTGGCAGGCAGCCCAGAGCTGCTAGAGTTCTTAGGTACCAGATC  
CCCAGGGGCTGCAGGGCTCACCAGCAGAGATTCTCTGTCTGGATGGCACAGACAGTCAGACAGGGAATGATGA  
AGAGGCTTTCGACTTTTTTGTAGGAGCAAGACCAAGTGGCAGAAGAGGGTCCGCCCCGTCCAGAGCCTGAAGGGCGA  
GGATGCTGAGGAATCCTTGGAGGAGGAGGAGGCGCTGGACCCCTCTGGGCATTATGCGCTCCAAGAAGCCCCAAGAA  
ACATCGGTGTGAAGGGAAGGACTGGGCCCTGCAGGGTCAGAACCTCCCCACCCCCAGGGGAGGCCAGGCAGAAG  
CCTGGGTACAGCACCCAGAACTGCATGGTTCCATTTCTCCGGGGCTGTGGGGCCAAAGTAGAAGCCTGCGGGC  
TGCGGGAGCGGCTCTCACCTTAGGAGCCAGAGCCCAATGTGTCTTATTTCCCGTGGACATGAAGGGGAGGGAGGG  
TGTGGGGATGCCTTGCCAACCAGAAGCCCAGCCCCAAGGATGAAGCAAGACATGTGGGGCCGTAGCGAGGTGTCA  
CATGGGGCAGGGAAGCTTCATGCCCACGGGTTCTGCCAGCCCCAGCACAGACCCAACTGGGGCTGGGCCTCTAT  
CCCTCCTCTGCCTCTGTTTCGCATAGTAAGAAGGAGTGACCGGTATCCTCCCCTTCCCCTACCCTAAGCTGTAGCC  
TGGGTGACTGACTGGCCTGGGCCTGGGGTGGGGACGTCCCCAAGCCAAATTACTCCAGGGCCTCTGCTCCTCGTG  
GCTGCCAGGGCCTGCAGGGTCTGGGTGGGTCTCCAGGAGAGGAATACTGAGTGGGAGATCGGCTGTCTGGAGT  
GTTCTGATGCAAGTCTCTCTCTCCTGAGCCTCCTCTTGATGCAAGCTCTAAAGGGAGAAGTCAGGCCCTGCCTCT  
CCAGGGTATAGACGGCCCTGCTAGGCCCCAGTTCTTCTCCTTCCCCCTTCCCAGGAAAGGCCAGCCCAGTCCA  
TGGCCTTCTTGGGCCTCTGGGCACAGAGCCAATGTTTCGTCATTGCAGCTCTCAGCAAACCTGGGTCATAGCTTTCC  
CCACAGCTCAGCCTGGGGCCTGGGCAGGGCTCCAGCCTGCACCGCCTCCCACTGCCAGTGGGGCATGATTCTCT  
CAGGCTTCTGCCCCGAGGCCTTCGTGCTCCTCAGGGTCTGGACTTGGTCAGTGGCCTTTACCAGTGGAGCTGCC  
TTCCCAGGGAGAAGGAGCCGTGCGCCAGGGCAGGGCCCGTGCCCTAGACTTCTCCCGACCCCCAGAGCGCTGGTA  
CACAGGTCTAGGCACCACACAGTGCTTTGGAAATTCTCAGTGAATGATGTTTAATAAAGCAAAAAATGTC



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**FIGURE 671**

MQSPAVLVTSRRLQNAHTGLDLTVPHQEVRGKMMSGHVEYQILVVTRLAAFKSAKHRPEDVVQFLVSKKYSEIE  
EFYQKLSSRYAAASLPPLPRKVLVFGESDIRERRAVFNEILRCVSKDAELAGSPELLEFLGTRSPGAAGLTSRDS  
SVLDGTDSTGNDEEAFDFFEEQDQVAEEGPPVQSLKGEDAESLEEEEEALDPLGIMRSKKPKKHRCEGKGLGPA  
GSEPPHPQGRPGRSLGHSTQNCMVFFSPGLWGQSRSLRAAGAALT LGARAQCVLFPVDMKGREGVGMPCQPEAQP  
QG

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**FIGURE 672**

ATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAAGTGGCAAGAAGGATGACAAGGACAAAAAAGAAATAT  
GAACCTTCTGTACCAACTAGAGTGAGGAAAAAGAAGAAGAAACAAAGGGACCAGATGCAGTCAGCAAACCTGCCA  
CTGGTGACACCTCACACTCAGTGCCGGTTAAATTACTGACATTAGAGAGAATTAAAGACTATCTTCTCATGGAG  
GAAGAATTCATTAGAAATCAGGAACAGATGAAACCATTAGAAGAAAAGCAAAAGGAGGAAAGATCAAAAGTGGAT  
GATCTGAGGGGGACCCCGATACAAGGATCTTCTGGAAACTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGC  
CGTGATGGGGTGCTGATGGATGACACGGATCCCCTGGTCACAGTGATGAAGATGGAAAAGACCCCCCAGGAGACC  
TATGCCAATATTGGGGGGCTGGACAACCAAATTCAGGAAATAAAGGAAGCTGTGGAGTTTCCTCTCACCCATCCT  
GAATATTATGAAGAGATGGGTAAAAAGCCTCCTAAGGGGGTCATTCTCTATGGTCCACCTGGCACAGGCAAAACC  
TTGTTATCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTGAGAAG  
TACCTAGTTGCTGAAGAGCATGAACTATCCATCATGTTTACTGATGAAATTGGAGCCATTGGGACAAAAAGATAT  
GACTCAAATTCCTGGTGGCCGCATTGACAGGAAGATCAAGTTCTCCCTGCCTGATGAAAGGACTAAGAAGCGTATC  
TTTCAGAATCACACAAGCAGGATGACACTGGCCGATGAAGTAACCTGGACGACTTGATCATGGTTAAAGATGAC  
CTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTCAAGAGAACGTAGAATGAAAGTA  
ACGAATGAATTCTTCAAAAAATATAAAGAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTCTATC  
TCTAGTGAACCACAGCTGCCATCAGGAAAATGGTTGGGCGATTCCCTCGACCCCTGAAAAGGATGAGCAACTTGTT  
CCCAAAGCTGGAGAAGACACTCCTGAGGGCTATTTAGGACAACCTTATGACTCAGCTCTTTGAGCAGAAAGAGGCC  
AAAAAGTTCAGCAGAAAAAGCCCTGAACTCTTGGAAGAGCTGGCTTCAAGCCTGGCTTAG

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**FIGURE 673**

MGQSQSGGHGPGSGKKDDDKKKKYEPSVPTVRKKKKKTKGPDVSKLPLVTPHTQCRLKLLTLERIKDYLLME  
EEFIRNQEOMKPLEEKQKEERSKVDDLRTPIQGSSGNWLLGPAQPQGACRDGVLMDDDTDLVTVMKMEKTPQET  
YANIGGLDNQIQEIKEAVEFPLTHPEYYEEMGKKPPKGVILYGPPGTGKTLLSKAVANQTSATFLRVVGSELIQK  
YLVAEEHEL SIMFTDEIGAIGTKRYDSNSGGRIDRKIKFSLPDERTKKRIFQNHTSRMTLADEVTLDDLIMVKDD  
LSGADIKAICTEAGLMASRERRMKVTNEFFKKYKEMFFIRNRKAPLRGSISSEPQLPSGKWLGDSSTPEKDEQLV  
PKAGEDTPEGYLGQLMTQLFEQKEAKKFSRKSPELLEELASSLA

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**FIGURE 674**

GACGGCGCCTTCGCGAAACACTATGCTAATGGCATGGTGCCGCGGTCCTGTCTTGCTGTGCCTGCGGCAGGGGCT  
CGGAACCAATTCATTCTGCACGGCCTGGGGCAGGAGCCCTTCGAGGGAGCTCGGTCACCTGTGTGCAGGTCCTC  
GCCTAGAGACCTGCGAGATGGAGAAAGAGAGCACGAGGCGGCACAAAGGAAAGCCCCAGGAGCAGAGTCTTGCCC  
ATCTCTCCCTCTGAGCATCTCGGACATTGGGACTGGATGTCTTTTCGTCACTGGAAAACCTCAGACTGCCGACGCT  
GCGGGAAGAGTCATCACCTCGAGAGCTCGAGGACTCGAGCGGAGACCAGGGCCGGTGCGGTCCCACACACCAGGG  
ATCCGAGGATCCTTCGATGCTCTCGCAGGCCAGTCCGCTATCGAGGTCGAAGAGCGTCACGTCTCCCCTTCTTG  
TTCAACTTCCAGAGAGAGACCCTTTCAGGCTGGGGAGCTGATTTTAGCTGAGACTGGGGAGGGAGAAACAAAATT  
TAAGAAATTATTTAGGTTGAACAACCTTCGACTCTTAAATAGTAACTGGGGGGCAGTCCCCTTCGGCAAGATCGT  
GGGGAAGTTCCCCGGCCAGATACTGAGGAGTTCCTTCGGTAAGCAGTACATGCTGAGGAGGCCAGCCTTGGAAGA  
CTATGTAGTATTGATGAAAAGAGGGACTGCCATAACATTCCTAAAGGATATTAATATGATTCTCTCAATGATGGA  
TATCAACCCAGGTGATACTGTTTTGGAAGCTGGCTCAGGCTCTGGTGGAATGAGCTTATTTTTATCCAAAGCAGT  
TGGATCACAAGGACGAGTCATAAGTTTTGAGGTACGAAAAGACCACCATGATCTGGCTAAGAAGAATTACAAACA  
CTGGCGTGATTTCATGGAAATTAAGTCATGTAGAAGAGTGGCCAGACAATGTGGATTTTATTCATAAGGACATTTT  
AGGAGCAACCGAAGACATAAAATCTTTAACATTTGACGCAGTAGCTTTGGATATGTAAATCCTCATGTACTTTT  
GCCTGTTTTTTTACCCACATCTTAAGCATGGTGGTGTATGTGCTGTATATGTAGTAAACATCACACAGGTTATTGA  
ACTTTTAGATGGAATTCGCACCTGTGAACCTTGCTCTTTTCATGTGAAAAGATAAGCGAGGTCATTGTCTAGAGATTG  
GTTGGTTTTGCCTTGCAAAACAGAAAAATGGAATTTTAGCTCAAAAAGTAGAATCTAAAATCAACACAGATGTACA  
ACTAGATTCTCAAGAGAAAATTGGAGTTAAAGGTGAGCTGTTTCAAGAGGATGACCATGAAGAATCGCATTCTGA  
TTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCATACAGCTTTTCTTGTCAA  
GTTGAGGAAGGTCAAACCACAACCTTAACTGAGTACTCCAGATGACAGTAACTGACTTGAAGATGGAAAAATATCA  
AAATAGAACTTTATATTGAAAATCACTGCTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTT  
ATACATATAATTTTGAAAATAACAATAAAGATGTATAACATAGCAAACTGCTTAAACATCCCATTTTGACAC  
TTGTCTTGCAGTTAGTTTGACATTTTGTAGTTAATGATTCCAAATTGGTTTAGTTGGGCCATCTCATTCTTCACT  
TCCTGTAAACCACTCCATAGATTTGTCTTTCTTCAAGAAATTAGTTTTCTTTCCTTTATTTGATTGATGGTCATT  
GACTACTGAAATAAAATATGCATTTTAAGATAAAAAAAAAAAAAA

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**FIGURE 675**

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSIS  
DIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSSEDPMSLSQAQSAIEVEERHVSPSCSTSRERP  
FQAGELILAEETGETKFKKLFRLNNFGLLSNNGAVPFGKIVGKFPQGILRSSFGKQYMLRRPALEDYVVLMKR  
GTAITFPKDINMILSMMDINPGDTVLEAGSGSGMSLFLSKAVGSQGRVISFEVRKDHDLAKKNYKHWRDSWKL  
SHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNITQVIELLDGIRT  
CELALSCEKISEVIVRDWLVLAKQKNGILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFP  
YVARPVHWQPGHTAFLVKLRKVKPQLN

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**FIGURE 676**

ATGCAACAAGCTTCTACCCCCAACCCGGCCAGACAAAGCCCCGGCAGCAGGGCCGGCACTTCCGAGCCTCCGGA  
CTCGGGACGCCGCGCTCTTACCCTGGCCTCATCCAGAGTGACGCCGGCGCCACCGCTTCCCCGGCTTTGGCGGC  
GGGGCAGCTGGCGGCGCGGGTCTTGGAGGAGCGGGTCCGAGAGGAGATGAAATGGCTGCTGCCTCCGGTCGCCCC  
AGGCTCTGCTCCGGCCCCAGGCCAGGCCGGGACCAGGAGACTTGGACCCGAGAAGGCGGAGAGAGCTCTTCCG  
GGTGTTACCATGGTCCAGCCAGGGGGACGGAGTCCACGCCGCGCCGGGAGAGCCGAGCAAGGCCGGCCCGCCG  
GCCGCTGCCCCGCCCCGGCGCGGCGTCAGCGCTCGGCGGCCGGGAGCGACGCTCTAGGCTGTCAGCTCGGTGG  
TTTCCAGCTCTCCCCGACCGCAGGGCTGGGGCGACCAGAAAAGCCAGACTAATCAGGACGAGTTCGGGCGTGGA  
TTGGGCCTGAAGCCCTCATGCCCAGCCAGGCCTGAATGCCCCAGACCCACCGTCACCCCCGTGGCCTGGATGGA  
GCAGGGGACGGCCGGCGAAGGCGCGGGTGGAAAGGGGAGCGGCGACGAAGGCGCGAGGAGCTGACTGGGAATCCC  
CAAGCTACCCGAGGCAAGACACTGAACTTGAGTCGCACTTTTCATGCCTGTAGAAATGAGAATGACAGCTGTGAT  
AAAAAAAAAATTCATCTGGGCGGTATCTGGAACCTGGGCGTTCGAAACTTACAGTTATGCGCAACACAATGTTT  
CTATTTTCAAAGGCGAACGCTGCACGATCGCAGTCCAGTGATACAAATAATAAAAGAGTTTATTACTTGTGAGCA  
ATGATGAATGTTTCGTGTGGCATCCAGCGTTGAGTTCCTATTCTTACTTGGAACCTCATTGGTCCCTGTGTCTGGGG  
CCAGCACTGATGGACACAATAAGTTTGCACTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCAACAC  
TTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGTTGTCTGGTTCCTTACT  
GTGTTATTTGTAGGGCTGGCAGCTGTGTGA

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**FIGURE 677**

MQQASYPQPGQTKPRQQGRHFRASGLGTPRSYPGLIQSDAGATASPGFGGGAAGGAGLGGAGPRGDEMAAASGRP  
RLCSGPRPRPGTRRLGPEKAERALPGVHHGPARGTESTPRPGEPSKAGPPAAAPPPARRQRSAAGERRSRLSARW  
FPALPDRRAGATRKARLIRTSSGVELGLKPSCPARPECPRPHRPRGLDGAGDGRRRRRGVEGERRRRREELTGNP  
QATRGTLLNLSRTFHACRNENDSCDKKKIHLGGIWNLGVPKLTVMRNTMFLFSKANAARSQSSDTNNKRYYLSA  
MMNVRVASSVEFLFLLGTHWSLCLGPAIMDTTKFALVFPLMYHTWNGIQHLMWDLGKGLKIPQLYQSGVVVLVLT  
VLFVGLAAV

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**FIGURE 678A**

ACAGAGAGATTGGTGTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATCAAAAAGGATGGAGTTGGGAAAAGG  
AAAAC TACTCAGGACTGGACTGAATGCGTTGCATCAAGCAGTGCATCCGATCCATGGCCTTGCCTGGACCGATGG  
GAATCAAGTTGTCCTAACTGATTTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACA  
GTTTGAATGTGTCTGTGGGTGTCTTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCTGTCCAGCA  
TGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGCAAATGGCTGACGTCTCAGACTTG  
TGAGATTAGAGGATCACTACCTATCCTTCCCCAGGGCTGTGTGTGGCACCCAAAATGTGCTATTCTGACTGTGTT  
GACTGCTCAGGATGTCTCCATTTTCCCTAATGTTCACTCTGATGATTCCCAGGTAAAGGCAGACATCAACACCCA  
GGCCCGCATTCACTGTGCATGTTGGACCCAGGATGGCCTGAGGCTGGTGGTGGCAGTAGGCAGCAGCCTGCATT  
TTATATTTGGGACAGCGCTCAGAAGACTCTTCACAGGTGCTCCTCCTGCCTGGTGTGTTGATGTGGACAGCCACGT  
CTGCTCCATCACAGCAACTGTGGACTCACAGGTTGCTATAGCTACTGAGCTTCCATTGGATAAGATCTGTGGCTT  
AAATGCATCTGAAACCTTTAATATCCCACCTAACAGTAAAGACATGACTCCGATGCTTTACCAGTTATTGGTGA  
AGTACGCTCTATGGATAAAGAGGCAACTGATTCTGAAACAAATTCTGAAGTATCAGTTTCTTCTTCTTCTATTAGA  
ACCTCTGGATCTAACTCACATACATTTCAATCAACATAAGTCTGAGGGTAATTCTCTTATTTGTCTAAGAAAAA  
GGACTACTTGACAGGAAGTGGCCAAGATTCTTCACATTTGGTCTTGTGACCTTTAAGAAGGCAGTTACCATGAC  
GAGAAAAGTCACTATTCCAGGCATTCTGGTCTCTGATCTGATAGCATTTAATCTTAAAGCCCACGTAGTGGCAGT  
GGCTTCCAACACTTGTAATATAATTTTGATCTACTCTGTCACTTCCATCTTCAGTCCCAAACATCCAGCAAATTCG  
ATTAGAGAACACTGAAAGACCAAAAGGGATATGTTTCTTGACAGACCAACTATTACTAATTTTGGTAGGAAAAA  
AAAAC TCACTGATACAACATTTTCTTCTTCTTCAAAGTCTGATCAGTATGCCATTAGCTTGATTGTTAGAGAAAT  
AATGTTGGAAGAAGAACCTTCAATAACATCAGGTGAAAGCCAGACTACCTACTCTACTTTTCAGTGCTCCGTAA  
TAAAGCAAATAGAAAAAAGTTAATTGAAAGTCTTCCCCAGATTTTTGTGCACCAAACAAAGGGCTGTTGCTGAC  
AGTTAATACCAGTAGTCAGAATGGAAGGCCTGGAAGAACTTATTAAAGAAATCCAGAGTCTCTGTCTAGTAT  
CTGTGATGGCTCCATAGCTCTAGATGCTGAGCCTGTTACCCAGCCAGCATCGCTGCCAGACACAGCAGCACACC  
AGACCACACCAGCACACTGGAGCCTCCTCGTTTGCCTCAAAGAAAGAACTTACAAAGTGAAGAAAGAACTTATCA  
GCTGTCTAAGGAGGTGGAATTTTATCTAGGAACCTGGTTGAAATGCAACGGTGTCTTTCTGAACCTACAAACCG  
TCTGCATAATGGGAAGAAATCCTCTTCAGTGTATCCACTCTCTCAAGATCTTCTTATGTTTACATCATTTACCA  
GAAACCTTATTATCTAGGCTCTGTTGTTGAAAAAGAGCGGTGCTTCTCTGTGATGGTAAACTAAGGCTCAGTAC  
AGTTCAGCAGACTTTTTGGCCTTTCTCTCATTGAAATGCTACATGATTCCCACTGGATTCTTCTCTGTGCTGACAG  
TGAGGGCTTTATCCCGTTAACCTTCACAGCCACACAGGAAATAATCATAAGAGATGGCAGCCTGTCCAGGTCAGA  
TGTCTTCAGAGACTCTTTTTCTCACAGTCCAGGTGCTGTTTCTTCTTAAAGTCTTTACAGGCCTGTGCTGCCCC  
CAGTTTAGATACCCTGGCTGTTGTAACCATGTAGATGGCATGGCTTGATATCTGCAGTGTCTTGTGCTGTAGC  
TCTTCAGATGAGACCATTACAAACAAGGCCTGCTTGACACTGGACACTCGCCAATGAGACTCCCCTGCACTCAG  
GCGAAGCGCTTGCCATGGTCGGCTCTCCTGGTTTCCCCCTGTTTCCCCCTGAGCTGAGGCTCGCTGCTGTGTAGCA  
GAGCTCAGTCTTTATTAGATGGCTCCGAAAGTGGTGTGTTATGTATTATGACTGTGTGGTTTTGACTAAGGGCAG  
AATTCTCAGAAACAAAACAATATTATGGTGCCATATGGATGGTGTGTTTATGGTTTCTCTGAGGCTTTGTGTCCCTT  
GTCCAAAGCTGCATTGAAGCTGTCTTAGGAGCACTTAAAGATACTTGGCATTGTTATAGGTCTTTTTCTTGGC  
TTCAAGAGGAGGTTGAGGAGTCTGCTGGGGGGCATGTGCTCTAGCATATTAACCTCAAACCAGCAAGAATTAGCA  
GAGCTCCAAGGAGGACCAGAGACCCACTGGCTTCTGCTCTCAGGAACAGGAAGTGGCTCTGATGTTGCCTGGACC  
TCCCAGAATTTAAACCAAACCTCTTGCTTCTTAAACAAATTCTGGCTGACGAAGGTCCAGGTACTCTTAAAAAC  
TGGCCCTGGGAAAATTTTGAATGAAATTTCAAGGGAATTTGTCCCCTCTGGGTTCCACTTGAGGTTGTGCCGATG  
CTGCTACCACACTGTGAGCCCAGGTAAGTCCCTACTGCAGGATTTTGTGCTGTGGCCACTCATGAGTGTCCCTGA  
AATAACTTTTTTTTTTTTAAATCCAGTTTTGGGATCACGCAACTTTCTATTTTTCTCCCAGTAGTCAGCTCCC  
TTAGTTAACTTGTCACTTTAATTTGATATTTTTATTTTCTCTCTTTTAAAGTCTTAGAGACCAGCAGAGAATCTG  
TGAGAGAAAGTATTTAGGAAGTTAGAAATTAACCGAATCTGAGGTAGTCTTAAAGTGGCATTGTTGTTTCAC  
TTATGGGCTAAAGTACCAGCTTAGTCAGGTAAGAGCCCTGACCCACTTCAGATGGTAACACCACTTCTCACTGCC  
TTCAGATGGAATCACAGATTTCACTCACGGCGCATAACAAATTGATCAGTGAAGTGGCTAGGCATCTGCAGATAAA  
TTGTTTCAGCCATAGAAGCTCCATTAGCACATATGCTTCTTTTCCCCCTTCTTTTAAATCATCTGGAAAGAA  
ACTATTTTGTGCCCTTGGGGACTCCTGTCTGTCTGTTACAGTTTACCAAGATGGAGCTGGGTAGGAAAGAAGTG  
AGGGCCCATTTTGTGGTTCAAGTGCCTAGACAGCTGCTGGGGTAGGAAGCACAGGCAATGTCTGCAATCAGCTG



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**FIGURE 678B**

TGGGAGAGCGGTGACTGAGAACAGTCTGAGGCCTGGCTCCACTTGGAAGTATCTGGGGTGCGATGAAATCACAAT  
TATCTTGAAGCCTAAAGAGGGGAACAAGACTGTAACTAAGATCAATGTGGGCACCTAAAAGGGTATGTTAAA  
ATCACCATTCTCAGGTCAAATACTGTGAAATAAAATGGAAACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 679**

MELGKGKLLRTGLNALHQAVHPIHGLAWTDGNQVVLTDLRLHSGEVKFGDSKVIQGFECVCGLSWAPPVADDTVP  
LLAVQHEKHVTVWQLCPSPMESSKWLTSTCEIRGSLPILPQGCVWHPKCAILTVLTAQDVSIFPNVHSDDSQVK  
ADINTQGRIHCACWTQDGLRLVVAVGSSLSHYIWDQAQKTLHRCSSCLVFDVDSHVCSITATVDSQVAIATELPL  
DKICGLNASETFNIPFNSKDMTPYALPVIGEVRSMDEADSETNSEVSVSSSYLEPLDLTHIHFNQHKSEGNL  
ICLRKKDYLTGTGQDSSHLVLTFFKAVTMTRKVTIPGILVPDLIAFNLKAHVAVASNTCNIILYVIPSSVP  
NIQQIRLENTERPKGICFLTDQLLLILVGKQKLTDTTFLPSSKSDQYAI SLIVREIMLEEEPSITSGESQTTYST  
FSAPLNKANRKKLIESLSPDFCHQNKGLLLTVNTSSQNGRPGRTLKEIQSPLSSICDGSIALDAEPTQPASLP  
RHSSTPDHTSTLEPPRLPQRKNLQSEKETYQLSKEVEILSRNLVEMQRCLSELTNRLHNGKKSSSVYPLSQDLPY  
VHIYQKPYLGPVVEKRAVLLCDGKLRRLSTVQQTGFLSLIEMLDHSHWILLSADSEGFIPLTFTATQEI IIRDG  
SLSRSDVFRDSF SHSPGAVSSLKVFTGLAAPSLDTTGCCNHVDGMA

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**FIGURE 680**

TTCTCTTAGCAGCACCCAGCTTGCCCACCCATGCTCAAGATGGGCGGGATGCCAGCCTGTTACATAAATGTGCCA  
AAAGCCTGGCCATGCCTGGAAAAATGGACCAATCCGCCCGCCAAGAGGTTGGGTCTCGTTCCCTAGAGAGAAGGAA  
GTTTCCTCTCCTTGAAAGTGAGAGCTAGAATCGCACTTTCTGTCAAGCTGAGAGAAAGACTCTTTTCCAGAGGCTA  
AAAGGACAAGAAAATCTGATTGCTTGCTTCTAACTTTGCGTTTTTAAAGGGGGAAGGAGGAAAGGAAAGAGGGGG  
AGGGTGGTTCTGCTTAGCCCCACCCCTCCGGCTACCCCAGGTCCAGCCGTCCATTCCGGTGGAGGCAGAGGCAGT  
CCTGGGGCTCTGGGGCTCGGGCTTTGTCACCGGGACCCGCAGGAGCCAGAACCCTCGGCGCCGCTGGTGCTG  
GGAGGGGAGCCGGGCCAGGAACAATATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGT  
GAAGGAGGTGGCCAAGCCGAGCCCGGGGGAGGGTGAAGTCCTCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGC  
GGACTTAATGCAGAGACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGG  
ACATGTGGCAGAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCCGG  
TGGGGGCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCCTGACCCA  
GGCTGCAGCCATCCCAGAGGCCTGGCTCACC GCCTTCCAGCTGTTACATCTTGTGGGAAATGTTACAGGCTGGAGA  
CTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACCTACCCGGATGGCTGGAGCTAT  
TCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGCTGCTGGATTCAATTA  
CAAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTTAATCTTATTCTAGACTGCAT  
AGGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTTCGATGGGTTCTCTATGGTCTGATGGG  
AGGAGGTGACATCAATGGGCCCCGTGTTTTCAAAGCTACTTTTTAAGCGAGGAAGTCTGATCACCAGTTTGCTGAG  
GTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCTTTACGGAGCAAATTCTGCCTCACTTCTCCACGGA  
GGGCCCCCAACGTCTGCTGCCGGTTCTGGACAGAATCTACCCAGTGACCGAAATCCAGGAGGCCCCATAAGTACAT  
GGAGGCCAACAAAGACATAGGCAAGATCGTCCTGGAAGTGCCTCAGTGAAGGAGGATGGGGCAGGACAGGACGCG  
GCCACCCAGGCCTTTCCAGAGCAAACCTGGAGAAGATTACAATAGACAGGCCAAGAAACCCGGTGCTTCCTCC  
AGAGCCGTTTAAAGCTGATATGAGGAAATAAAGAGTGAAGTGG

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**FIGURE 681**

GGCAGAGGGTCCCGTTACCGCCTCCTGCTCCTGCCGCGCGCACCCCCGGGGCTTCGGCTCCGGCACGGGTTCGCG  
CCCAGCTTTCTGACCTGAGGCCGCCGGCCAGCCGCCGCCATGGGTGCCTACCTCTCCCAGCCCCAACACGGTGA  
AGTGCTCCGGGGACGGGGTCGGCGCCCCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCG  
TCTCCATGGAGGATGCTCACAACCTGTATTCTGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGAC  
ATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAATATCTTCCTGATATCATCAAAGATCAGAAGGCCTACAAGG  
AAGGCAAGCTACAGAAGGCTTTAGAAGATGCCTTCTTGGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTA  
AAGAGCTGGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATG  
TGGACAATGAGGAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGC  
AGAAGTGTACACAAGGGCCCTCCCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCA  
ATGGGGAGGCGAGGACCTGAGGACTCAACTAGGGAACTCCTTCACAAGAAAAATGGCCCCACAGCCAAGGCCTACA  
CAGGCTTTTTCTCCAACCTCGGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCCTGGTGAGG  
CTGGGCCTTCTGCTCTTCAGCCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTTTGAGGACAGTGAGG  
ATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGAGGAATGCAGCGAGGAAGAGGATGGCTACAGCAGTG  
AGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGGACGATGAAGAAGAAGAAGAAGA  
TGATGGTGCCAGGGATGGAAGGCAAGAGGAGCCTGGCTCTGACAGTGGTACAACAGCGGTGGTGGCCCTGATAC  
GAGGGAAGCAGTTGATTGTAGCCAACGCGAGGAGACTCTCGCTGTGTGGTATCTGAGGCTGGCAAAGCTTTAGACA  
TGTCTATGATCACAAACCAGAGGATGAAGTAGAACTAGCACGCATCAAGAATGCTGGTGGCAAGGTCACCATGG  
ATGGGCGAGTCAACGGGGGCTCAACCTCTCCAGAGCCATTGGGGACCACTTCTATAAGAGAAACAAGAACCTGC  
CACCTGAGGAACAGATGATTTTCAGCCCTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGG  
TCATTGCCTGTGATGGCATCTGGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTTCATTCAATCAAAGATCAGCC  
AGCGTGATGAAAATGGGGAGCTTCGGTTATTGTCTATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAG  
ACACTTCTGGGGATGGTACAGGGTGTGACAACATGACCTGCATCATCATTTGCTTCAAGCCCCGAAACACAGCAG  
AGCTCCAGCCAGAGAGTGGCAAGCGAAAACTAGAGGAGGTGCTCTCTACTGAGGGGGCTGAAGAAAAATGGCAACA  
GCGACAAGAAGAAGAAGGCCAAGCGAGACTTAGCAGTCATCCAGACCCCTGCCACCTAGACTGTTTTCTGAGCCC  
TCCGGACCTGAGACTGAGTTTTGTCTTTTTCTTTAGCCTTAGCAGTGGGTATGAGGTGTGAGGGGGAGCTGGG  
TGGCTTCACTCCGCCCATTCCAAAGAGGGCTCTCCCTCCACACTGCAGCCGGGAGCCTCTGCTGTCTTCCCAGC  
CGCCTCTGCTCCTCGGGCTCATCACCGGTTCTGTGCCTGTGCTCTGTTGTGTTGGAGGGAAGGACTGGCGGTTCT  
GGTTTTTACTCTGTGAACTTTATTTAAGGACATTCTTTTTTATTGGCGGCTCCATGGCCCTCGGCCGCTTGCACC  
CGCTCTCTGTTGTACACTTTCAATCAACACTTTTTTCAGACTAAAGGCCAAACCTAAAAAAAAAAAAA

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**FIGURE 682**

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFSVYDGHGGEVALYCAKYL  
PDI IKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDEDEKEKVADEDDVDNEEAALLHEEAT  
MTIEELLTRYGQNCHKGPPHSKSGGGTGEEPGSQGLNGEAGPEDSTRETSPQENGPTAKAYTGFSSNSERGTEAG  
QVGEFGIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDSEECSEEDGYSSEEAENEDEDDTEE  
AEEDDEEEEEEMVPGMEGKEEPGSDSGTTAVVALIRGKQLIVANAGDSRCVVSEAGKALDMSYDHKPEDEVELA  
RIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRKNLPPPEQMISALPDIKVLTLLDDHEFMVIACDGIWNVMSSQ  
EVVDFIQSKISQRDENGELRLLSSIVEELLDQCLAPDTSGDGTGCDNMTCIITCFKPRNTAELQPESGKRKLEEV  
LSTEGAEENGNSDKKKKAKRD

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**FIGURE 683**

CCACTGCCGCTGCCGCCGCTCTCCTTAGTCGCCGGCATGACGACCGCGTCTACCTCGCAGGTGCGCCAGAACTT  
GCTGAGAAATTGATGAAGCTGTAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGT  
GCGGGGAGAATGCGATGGGAGAGCGGGCTGAATGCGATGGATTACATTTGGAAAAAATTGTGCATTTTGCATTAC  
ATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCATTTGT  
GTGACTTCATTGAGACACATTACCTGAATGAACAAGTGAAGGCCATCAAAGAATTGGGTGACCACGTGACCAACA  
TGCACGAGATGGGAGCGCCCGAATCTGGCGTGGCAGAATACCTCTTTGACAAGCACACCCCTGGGAGACAGTGATA  
ATGAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCATAGGGTGACTTACCTTGTCACCAAGGCAGCGCATGTAT  
GTTGGGGTTTCCTTTACCTTTTCTATAAGTTGTTCCAAGACACCCACTTAAGTTCTTTGATTGTACCATTTCCTT  
CAAATAAATAAATTTGGTACCC

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**FIGURE 684**

CCCTATCCGGACAGGTGGCTCTTGCCCTTTAGACTACAGTTCCCAGCATGCCAGGCGATTGCGTCCCAGAACCG  
ACGTCCCACCGCCTTCCACATCGGATCGCAGGGCTCCCAAATGGCGAGTGAGGCTGCGGGGACTCGCTGAGCA  
GCGGAGGGGGAGCGTGACAGAGCCGCTGCGGCCCTCACAGTCCGGAGCCCGCCGTGCCGTGCCGTAGGGAACATG

CACTTTTCCATTCCCCGAAACCGAGTCCCGCAGCGGGGACAGCGGCGGCTCCGCCTACGTGGCCTATAACATTAC  
GTGAATGGAGTCCTGCACTGTCGGGTGCGCTACAGCCAGCTCCTGGGGCTGCACGAGCAGCTTCGGAAGGAGTAT  
GGGGCCAATGTGCTTCCTGCATTCCCCCAAAGAAGCTTTTCTCTCTGACTCCTGCTGAGGTAGAACAGAGGAGA  
GAGCAGTTAGAGAAGTACATGCAAGCTGTTTCGGCAAGACCCATTGCTTGGGAGCAGCGAGACTTTCAACAGTTTC  
CTGCGTCGGGCACAACAGGAGACACAGCAGGTCCCCACAGAGGAAGTGTCTTGGAAGTGCTGCTCAGCAACGGG  
CAGAAAGTTCTGGTCAACGTGCTAACTTCAGATCAGACTGAGGATGTCCTGGAGGCTGTAGCTGCAAAGCTGGAT  
CTTCCAGATGACTTGATTGGATACTTTAGTCTATTCTTAGTTTCGAGAAAAAGAGGATGGAGCCTTTTCTTTTGTA  
CGGAAGTTGCAAGAGTTTGAGCTGCCTTATGTGTCGTGCACAGCCTTCGGAGTCAAGAGTATAAGATTGTGCTA  
AGGAAGAGTTATTGGGACTCTGCCTATGATGACGATGTCATGGAGAACCGGGTTGGCCTGAACCTGCTTTATGCT  
CAGACGGTATCAGATATTGAGCGTGGGTGGATCTTGGTCACCAAGGAACAGCACCGGCAACTCAAATCTCTGCAA  
GAGAAAGTCTCCAAGAAGGAGTTCTTGAGACTGGCCCAGACGCTGCGGCACTATGGCTACTTGCGCTTTGATGCC  
TGTGTGGCTGACTTCCCAGAAAAGGACTGTCTGTGGTGGTGAGCGCGGGCAACAGTGAGCTCAGCCTGCAGCTC  
CGCCTGCCTGGCCAGCAACTCCGAGAAGGCTCCTTCCGGGTACCCGCATGCGATGCTGGCGGGTCACCTCCTCT  
GTACCATTGCCCAGTGGAAGCACGAGCAGCCAGGCCGGGGCCGGGGTGAGGTGCGCCTGGAACCTGGCTTTTGAA  
TACCTCATGAGCAAGGACCGGCTACAGTGGGTACCATCACTAGCCCCCAGGCTATCATGATGAGCATCTGCTTG  
CAGTCCATGGTTGATGAACTGATGGTGAAGAAAATCTGGCGGCAGTATCAGGAAGATGCTGCGCCGGCGGGTGGGG  
GGTACTCTGAGACGCTCAGACAGCCAGCAAGCAGTGAAGTCCCCACCACTGCTTGAGTCACTGATGCCACCCGG  
GAGTCTATGGTCAAACCTCTCAAGTAAGCTGAGTGCCGTGAGCTTGCGGGGAATTGGCAGTCCCAGCACAGATGCC  
AGTGCCAGTGATGTCCACGGCAATTTGCGCTTCGAGGGCATTGGAGATGAGGATCTGTAATCTCCACTGCTTGGA  
TGTCTGCCCTCTACCCCAGAGGAATTTACAGAACTTGCCCTGTGCCTGTGTCCCCATGCTAGGGGCGGAGGGG  
TCTTTTCCTTCTTCTTTCTACCTACCCCTTTTCTCTTGCCAGGGGCCTCGTATCCTACCTTTCTTGTCCCCT  
GGGCTGGCTGCACAGAGGATTGCCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTT  
GCACAAAGTCTAAGGGACCATGGCTGCCTGCCTTGGGGAGGAACCATAGCTCCCTCTGGGCGCTTCTGGCCTCT  
TGGAGCCATGGGCCAAAGGCCAAGGGGATGGGCAGAGGTCTGTGTTTGGTCTGGCCAGTTCCCCATCATTAAC  
TCAGCCTGACTGCTGCCT

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**FIGURE 685**

MHFSIPETESRSGDSGGSSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAPFPKKLFSLTPAEVEQR  
REQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQVPTEEVSLLEVLLSNGQKVLVNVLTSDQTEDVLEAVAL  
DLPDDLIGYFSLFLVREKEDGAFSFRKLQEFELPYVSVTSLRSQYKIVLRKSYWDSAYDDDV MENRVGLNLLY  
AQTVSDIERGWILVTKEQHRQLKSLQEKVSKKEFLRLAQTLRHGYLRFDACVADFPEKDCPVVVSAGNSELSLQ  
LRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGSTSSPGRGRGEVRLELAFEYIMSKDRLQWVTITSPQAIMMSIC  
LQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQQAVKSPPLLESPDATRESMVKLSSKLSAVSLRGIGSPSTD  
ASASDVHGNFAFEGIGDEDL



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**FIGURE 686**

GATGGCTGCTGTGGCCGTGGCTGTTCGCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGCCTGG  
GGCAGTGGGGAGGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAAGAAACAGCAGAAGAAGAAACG  
GAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAAGTAGGCCCAACCAG  
AGAAGTCCAGAATCGGGCATTCACTTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTCGGAGTAAGGCCGAAGT  
TCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGCAAGAAAAGGGGAACAAGGAGGACC  
ACCTCCTAAGGCCAGCCCCAGCACAGCTGGAGAAACCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGT  
TGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACCAGAGCGTCAACAGGTTCTTACACGAAAGGATTATGGATC  
CAAAGTCAGTCTCTTCTCTCACCTACCCAGTACAGCAGACAAAACCTCTCTGACCCAGTTTATGAGCATCCCATC  
CTCTGTGATCCACCCAGCCATGGTGCGACTCGGCCTGCAGTACTCCCAGGGCCTGGTCAGTGGCTCCAATGCCCCG  
GTGTATTGCCCTGCTTCGTGCTTGCAGCAGGTGATTGAGGATTACACAACACCGCCTAATGAAGAACTCTCCAG  
GGATCTAGTGAATAAACTAAAACCTACATGAGCTTCCTGACTCAGTGCCGTCCCCTGTCAGCGAGCATGCACAA  
CGCCATCAAGTTCCTTAACAAGGAAATCACCAGTGTGGGCAGTTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACT  
TCGAGCAGCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTTACGCTTTGCTTACCA  
GAAGATCAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATTTCTCAGGAGGCTTG  
GACAGAGGGCCGGCGGTTTCGGGTGGTAGTGGTGGACAGCCGGCCATGGCTGGAAGGAAGGCACACACTACGTTT  
TCTAGTCCATGCTGGTGTCCCAGCCTCCTACCTGCTGATTCTCTGCAGCCTCCTATGTGCTCCCAGAGGTTTCCAA  
GGTGCTATTGGGAGCTCATGCACTCTTGCCAAACGGGTCTGTGATGTACGGGTAGGGACAGCAGTTAGCCCT  
GGTGGCTCGAGCCCATAATGTACCAGTGCTGGTTTGCTGTGAAACATACAAGTTCTGTGAGCGTGTGCAGACTGA  
TGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTGCAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAA  
CTGGCAGAACCACGCATCCCTACGGTTGTTGAACTAGTCTATGATGTGACTCCCCAGAGCTTGTGGATCTGGT  
GATCACGGAGCTGGGGATGATCCCTTGAGTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAGTGACG  
GGGGAAACACAGGGTTAATAAATGCCATACTCCCTACCCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAC

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**FIGURE 687**

MAVAVAVREDSGSGMKAELPPGP GAVGREMTKEEKLQLRKEKKQKKRKEEKGAEPETGSAVSAAQCQVGPTR  
ELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKRLPEYPQV  
DDLLLRRLVKKPERQQVPTRKDYGSKVSLFSLHLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNAR  
CIALLRALQQVIQDYTTTPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSEL  
RAAIDRYVQEKIVLAAQAISRFA YQKISNGDVILVYGCSLVSRLQEAWTEGRRFRVVVDSRPWLEGRHTLRS  
LVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGTAQLALVARAHNPVVLVCCETYKFCERVQTD  
AFVSNELDDPDDLQCKRGEHVALANWQNHASLRLNLVYDVTPPELVDLVITELGMIPCSSVPVVLRVKSSDQ

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**FIGURE 688**

AGGACTTTGGCGAGGGGGCAGCCATTTTGGGGGGTGCTGATGGATACCTGCGGGGTCGGCTATGTTGCCCTGGGG  
GAGGCCGGCCCCGTGGGGAACATGACTGTGGTAGACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAG  
ACCTCTTCAGAAATGACCAGTGCAGAGGCTTCCGTAGAGATGTCAATTACCTACCCCTTTGCGCTGGATTTGAGGAT  
TCTCCTGATCAGAGGAGGCTCCCTCCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTTCAGAG  
ATGTCAAAGGTCTCAAAGCCTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCCAAA  
AGGCCCCAACAGCCTAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATCAATCCAACCCTCTGTCCACC  
CCCATGCTTAAGAAACGAGGTGCGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGG  
CCAGAATCTCAATCTCCAAAGAGGCCCTTGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCCGAAGGGCT  
GCCCAAGTGGCACTTCTGTATCTTCAGGAAGTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCTGTGTCTCTGT  
CCTGAGGGCCCCAAGGTGAGCAGCCCCACCAACCGAAGAAGATCCGGCAGCCAGCAGCCTGTCCAGGTGGAGAA  
GAGGTGGATGGTGCTCCACGGGATGAAGACTTTTTTCTCCAGGTTGAGGCTGAAGATGTGGAAGAAAGTGAGGGC  
CCAAGTGAGAGCTCATCTGAACCTGAGCCTGTAGTGCCCCGAAGCAGCCACGAGGATCTACTTCAGGGAAACAG  
AAACCACACTGCCGAGGAATGGCTCCCAATGGCTTACCAATCATATCATGGCTCCTGTTTGGAAGTGCCTCCAT  
CTCACCAAGGACTTCCGAGAGCAGAAACATTCATACTGGGAGTTTGCTGAGTGGATTCTTTAGCCTGGAAGTGG  
CACTTGTTATCTGAGCTTGAGGCCGCTCCCTACCTGCCCCAGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGT  
GAAGGGCTACCTGAAGATGGCACCCCTCTACCGAATAAACAGATTTAGCTCGATCACAGCACATCCAGAGCGCTGG  
GATGTGTCCTTCTTACGGGGGGACCGCTCTGGGCTCTGGACTGGTGCCAGTGCCAGAGGGGGCAGGAGCCTCG  
CAATATGTGGCTCTTTTCTCCAGCCCTGACATGAATGAGACACACCCACTGAGCCAGCTTCATTGCGGTCTCTGGG  
CTGCTCCAGCTCTGGGGCCTTGGGACCTTGCAGCAAGAAAGCTGTCTGGCAACAGGGGCCACTTTGTCTATGGG  
ATTGCTTGTGACAACGGCTGCATCTGGGACCTCAAGTTCTGCCCCAGTGGAGCATGGGAACCTTCAGGCACCCCT  
CGGAAGGCTCCTCTCCTGCCCGGTTGGGTCTCTTGGCTCTGGCCTGCTCAGACGGGAAAGTACTGCTATTAGT  
CTACCCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCCAGATGCAGTGAAGCCTGCCATATATAAGGTACAATGT  
GTGGCAACTCTGCAGGTGGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCAGTGCCTTAGCCTGGCCTGG  
ATGCTTACCAGGCCCCACCAACACCTAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGAACCTTCCCACT  
AACTCACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCAGTGTTCCTAGCCCAT  
GACCAGGCTGTGCGTACCCTTCAATGGTGCAAAGCTAACAGCCATTTCTTGTCTCTGCGGGGAGTGACCGGAAA  
ATCAAATCTGGGACCTTCGACGTCTTACGAACCCATAAACTCTATCAAGCGCTTCTTGAGTACAGAAGTGGCC  
TGGCTGCTTCCCTACAATGGTGTCACTGTGGCTCAGGACAAGTCTATGCCTCTTATGGACTCTGTGGGATTCTAT  
TATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTCACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCA  
GGATCCGACTGGCTTGGGACAATAGCTGCAGGAGATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATG  
GCACTGAATCCAATAAATGTCAAGCGACCTGTAGAGCGAAGATTTCTATATATAAAGCAGATCTGATACCGTAT  
CAGGACAGTCTGAAGGTCCAGACCATTTCTTCTGCTTCATCTGGGGTCCCCAACCCCTCCCAAGGCTCGAACTTAC  
ACTGAAACTGTCAACCATCACTACTTGTCTTTCAAGACACAGATTTGGGTTTCAATTCATGATCTGCTCCGTAGA  
GAACCAATGCTGCGCATGCAGGAGGGAGAGGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATT  
CATAAGGTACGTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGGCAGTCAGGGCTGGTTTGA  
ATCCATTTTGTCCGTGGACTCGCCTCCCCACTGGGCCACCGTATGCAGCTTGAAAGCCGAGCCCACTTCAATGCT  
ATGTTCCAACCATCCTCCCCACTAGACGGCCTGGCTTCTCTCCAACCAGCCATCGCCTTCTGCCCACTCCCTTAG

CCTTGGCCACACCAGATCCTTGGAGTGAAGTCGGTCAAGAACAAATGGCCCTATGCACAGAGCCATAGGAACT  
GGGGGCCTTCCCTGGACAGTGATCATGCCAGGCCTGGACCTTTAGGCCTGCCTCCCCAGGACTCCTTAGATCCCA  
CTCTTTCTACAGACTTCTGTGATCACAGCCCCCTGCGGGCAGGGGGGCTCTCCCTCCACCAACTCTCAAGGCTCC  
TCAGCCTAAGACTATGGCTCATGAGAAACACTCAGGCCTGACCTAGGCTTGGGAGTCAAAGTGTCTCATATTGAGC  
ATATTGTTAAGTGGGTAAAGCCAAGTAAAGGTACTGGGTGTTTTTGTGACCACTTGTGAATGGGTGTATGGAGAA  
CTGAAAAGGGTATCTGCATGAAGGCTCCTGTCTGACTATTCCAGGATCCAATATTACTGCCTTCTGAACTTCTCT  
CTTTAGGGTAACCATCATGTATGCCACGAGGGTGATAGTAATTCGTGAGACTGAAGTTGCTTAGAGTACTTCTT  
TGACCAAGGAATACCACAGACACCCTACCGATAGAACAGTGGCTCAGATCTTACTTGCTCCTGCTTACGAAGTAT  
TCCCAATCACTGGTCACTGACCCCTACTTGAACACTCCTGAACAGTCATGTTTTTTAAATCTTCTTTATATCA  
AGTCAGAGAGTATACTTCTATAAATTCACCTCATGGATGTTAGGAAATCTAGTCATCTTCCCTGTGATTGCCCTG  
TTAAGTATTTAACCATAGCTATCATGTGTTTCCCAATCTTCTCTAGATTAAATATCTTCAGTTACTTC

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**FIGURE 689**

MDTCGVGYVALGEAGPVGNMTVVDS PGQEV LNQLDVKTSSEMTSAEASVEMSLPTPLPGFEDSPDQRRLPPEQES  
LSRLEQPDLSSEMSKVSKPRASKPGRKRGGRTKGPKR PQPNPPSAPLVPGLLDQSNPLSTPMPKKRGRKSKAE  
LLLLKLSKDLD RPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPVSCPEGPKVSSPTKPK  
KIRQPAACPGGEEVDGAPRDEDFFLQVEAEDVEESEGPSESSEPEPVVPRSTPRGSTSGKQKPHCRGMAPNGLP  
NHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLPQEEKSPLEFSVQREGLPEDGTLYRIN  
RFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSSPDMNETHPLSQLHSGPGLLQLWGLGTLQQE  
SCPGNRAHFVYGIACDNGCIWDLKFCPSGAWELPGTPRKAPLLPRLGLLALACSDGKVLLFSLPHPEALLAQPP  
DAVKPAIYKVQCVATLQVGSMQATDPSECGQCLSLAWMPTRPHQHLAAGYYNGMVVFWNLPTNSPLQIRLS DGS  
LKLYPFQCF LAHDQAVRTLQWCKANSHFLVSAGSDRKIKFWDLRRPYEPINSIKRFLSTELAWLLPYNGVTVAQD  
NCYASYGLCGIHYIDAGYLGFKAYFTAPRKGTVWSLSGSDWLGTIAAGDISGELIAAILPDMALNPINVKRPVER  
RFPIYKADLIPYQDSPEGPDHSSASSGVNPPKARTYTETVNHHYLLFQD TDLG SFHDL LRREPMLRMQEGEGHS  
QLCLDRLQLEA I HKVRFS PNLD SYGWLVS GGQSGLVRIHFVRGLASPLGHRMQLESRAHFNAMEFQPSSPTRRPGF  
SPTSHRLLPTP

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**FIGURE 690**

GAGGGACGGTGGGGGTGACCCCCTCTCCTCTTGGCTTGACAGGAAGCATGGCACTCTGGCGGGCATACCAGCGGG  
CCCTGGCCGCTCACCCGTGGAAAGTACAGGTCCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCAC  
AGCAGCTGGTGGAGAGGCGGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTG  
GCTTTGTGGGCCCTGTGGTAGGAGGCTGGTACAAGGTTTTGGATCGGTTTCATCCCTGGCACCACCAAAGTGGATG  
CACTGAAGAAGATGTTGTTGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGG  
CACTTAATGGACTGTCAGCCCAGGACAACCTGGGCCAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACT  
ACTATCTATGGCCTGCTGTGCAGTTAGCCAACCTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAAT  
GTGTTGCTGTTAICTGGAACCTCTACCTGTCCTGGAAGGCACATCGGCTCTAAGCCTGCCTCACTCCATCGTTTC  
CACCTTGCAGTGATGCAGCTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATACCAGTTTCCACGGG  
GTTGGGTTGCCGGTCAGAGCTTAAGAGGACTAGCACCCTGCAATGCCCCCTCTTCACTCTAAAATGTACACTGACT  
GCTTTAGAGCCCTTGATAATAGTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATG  
ACCTTATCAACTTTACACCCATATCCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTA  
ACCCTGCCTAGGCTTCTTGTAGCTCCAGCTCTTTAGAGACTCCCGGAACCCTTTATATGGTGCCTCAGTAAATAT  
GTTATTAAATATGTAATCCGG

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**FIGURE 691**

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQRGRTLTMVSLGCGFVGFPVGGWYKVLDR  
FIPGTTKVDALKKMLLDQGGFAPCFLGCFLLVGLNGLSAQDNWAKLQRDYPDALITNYLWPAVQLANFYLP  
LHYRLAVVQCVAVIWNSYLSWKAHRL

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**FIGURE 692A**

CGCCCCCGCCTCTGAGCTCCCTTCCCATGGCGGCCCTAGTGTGGAGGACGGGTCCGTCTGCGGGGCCAGCCCT  
TTGGGGCCCGCGTGTGCGACTGCCGGGGAAGTGGTGTTCAAACCGGCATGGTCGGCTACCCCGAGGCCCTCACTG  
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCAGATGAAA  
TGGATGAGTTCCGGTCTCTGCAAGTGGTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGT  
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC  
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG  
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAAGACTC  
CACGGGTATTCAATACAGGGGGTGCCCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT  
GCCTCTGCCAGCGTGGGGCTGAGGTCACTGTGGTACCCTGGGACCATGCCTAGACAGCCAAGAGTATGAGGGTC  
TCTTCTTAAGTAATGGGCCTGGTGACCCTGCCTCCTATCCCAGTGTCTATCCACACTGAGCCGTGTTTTATCTG  
AGCCTAATCCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAAGACTT  
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTGGTGGGCTCTGGGCGCTGCTTTCTGACAT  
CCCAGAACCATGGGTTTGTCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTACCAACGCCAATG  
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCCTTCTTCAGTGTCCAGTTTCACCCAGAGCACCAAGCTG  
GCCCTTCAGATATGGAAGTGTCTTTTCGATATCTTTCTGGAAGTGTGAAAGAGGGCCACAGCTGGGAACCCCTGGGG  
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTCCAC  
CACCACGAAAGGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTTGACTACTCGGGCT  
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGCTGATCAACCCCAATATTGCCACAGTGCAGA  
CCTCCCAGGGGCTGGCCGACAAGGTCTATTTTCTTCCCATACACCTCATTATGTAACCCAGGTGATACGTAATG  
AACGCCCCGATGGTGTGTTACTGACTTTTGGGGGCCAGACTGCTCTGAAGTGTGGTGTGGAGCTGACCAAGGCCG  
GGGTGCTGGCTCGGTATGGGGTCCGGGTCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG  
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATTCTCTGAAACAGGCC  
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCCTGCAGCCTTTGCCCTGGGTGGCCTGGGCTCTGGCT  
TTGCCCTAACAGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCCATACCAGCCAAGTGTAGTAGACA  
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCTATGGCAACTGTGTACGGTGTGTA  
ACATGGAGAACTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCTAGCCAGACACTGAATG  
ACAGGGAGTATCAGCTCCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG  
TGCAGTATGCCTTGAACCTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG  
CCCTGGCCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCATCCCTTTGCCTG  
AGCTCAGGAACCTCTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCTC  
GATGGGACCTTAGCAAGTTCTGCGAGTCAGCACAAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG  
GCATTGGGCGTTTATTGAGGAGGCCTTCCAGAAGGCCCTGCGCATGGTGGATGAGAACTGTGTGGGCTTTGATC  
ACACAGTGAAACCAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTTGTGGTGGCAGCTGCTT  
TGTGGGCTGGTTATTAGTGGACCGCCTGTATGAGCTCACACGCATCGACCGCTGGTTCTGACCCGAATGAAGC  
GTATCATCGCACATGCCAGCTGCTAGAACAACACCGTGGACAGCCTTTGCCGCCAGACCTGCTGCAACAGGCCA  
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTGCAGTTCTGAGCACAGAGCTGGCTGTTTCGCAAGCTGCGTC  
AGGAAC TGGGGATCTGTCCAGCAGTGAAACAGATTGACACAGTTGCAGCTGAGTGGCCAGCCAGACAAATTACC  
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTTCGAACACCTCATGTCCTAGTCTTGGCTCTGGCG  
TCTACCGTATTGGCTCTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT  
ATAAGACCATCATGGTGAAC TATAACCCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTG  
ATGAGATCTCTTTTGGAGGTGGTGATGGACATCTATGAGCTCGAGAACCCTGAAGGTGTGATCCTATCCATGGGTG  
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCCTGAAGCCA  
TTGACTCGGCTGAGAACC GTTTCAAGTTTTCCCGGCTCCTTGACACCATTGGTATCAGCCAGCCTCAGTGGAGGG  
AGCTCAGTGACCTCGAGTCTGCTCGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCGCCCTCCTATG  
TGCTGAGCGGTGCTGCTATGAATGTGGCCTACACGGATGGAGACCTGGAGCGCTTCTGAGCAGCGCAGCAGCCG  
TCTCAAAGAGCATCCCGTGGTCATCTCCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT  
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATT CAGGTGATGCGACGC  
TGGTGACCCCCCACAAGATATCACTGCCAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG

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**FIGURE 692B**

AGCTACAGGTCACAGGACCCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG  
TACGTGTCTCTCGCTCCTTCCCCCTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGGCCACGCGGTCA  
TCATGGGGGAAGAAGTGAACCTGTGGGGCTAATGACTGGTTCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT  
CCTTCTCCCGCTTGGCGGGTGTGACGTGGTGTGGGTGTGGAAATGACCAGTACTGGGGAGGTGGCCGGCTTTG  
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC  
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCAACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC  
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG  
AGGAGGCTGTGGATGGTGAGTGCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAACTTTGAGCTGG  
TGATTAACCTGTCAATGCGTGGAGCTGGGGGCGGGCTCTCTTCTTCTTGTACCAAGGGCTACCGCACCCGAC  
GCTTGGCCGCTGACTTCTCCGTGCCCCCTAATCATCGATATCAAGTGCACCAAACCTCTTTGTGGAGGCCCTAGGCC  
AGATCGGGCCAGCCCCCTCTTTGAAGGTGCATGTTGACTGTATGACCTCCCCAAAAGCTTGTGCGACTGCCGGGAT  
TGATTGATGTCCATGTGCACCTGCGGGAACCAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG  
CCCTGGCTGGGGGTATCACCATGGTGTGTGCCATGCCTAATACCCGGCCCCCATCATTGACGCCCTGCTCTGG  
CCCTGGCCGAGAAAGCTGGCAGAGGCTGGCGCCCGGTGCGACTTTGCGCTATTCTTGGGGCCTCGTCTGAAAATG  
CAGGAACCTTGGGCACCGTGCCGGGTCTGCAGCCGGGCTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC  
GGCTGGACAGCGTGGTCCAGTGGATGGAGCATTTTCGAGACATGGCCCTCCACCTCCCCATTGTGGCTCACGCAG  
AGCAGCAAACCGTGCTGCTCCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTCACGTGGCAC  
GGAAGGAGGAGATCCTGCTAATTAAAGCTGCAAAGGCACGGGGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC  
ACCTGTTCTTAAGCCATGATGACCTGGAGCGCCTGGGGCCTGGGAAGGGGGAGGTCCGGCCTGAGCTTGGCTCCC  
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTTCATCGACTGCTTTGCCCTCAGACCATGCTCCCCATACCT  
TGGAGGAGAAGTGTGGGTCCAGGCCCCACCTGGGTTCAGGGTTAGAGACCATGCTGCCACTACTCCTGACGG  
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC  
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATCCCAGCCACATGCCCTTCT  
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCGTCCGCCGTGTGGTCTGCGAGGGGAGG  
TTGCCTATATCGATGGGCAGGTTCTGGTACCCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG  
TTCTCAGCTCCCACCCTCAGCCCCGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCCGTGGCATCC  
CAGGGCTTCTGATGGCCGCTTCCATCTGCCGCCCGGAATCCATCGAGCCTCCGACCCAGGTTTGCCAGCTGAGG  
AGCCAAAGGAGAAGTCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCTC  
CACCACAGTACCGAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGTGACCCCCAGACCTCACCCC  
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTACCAAGGATCAGATGTCTCACCTGTTCA  
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTCATGGCCT  
CCATGTTCTATGAAGTGAGCACACGGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGTGGGAGGTGCTGTGC  
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT  
ATGCCGACGTCGTGCTCGGCACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG  
TGATCAATGCTGGGGATGGGGTGGGAGAGCACCCACCCAGGCCCTGCTGGACATCTTACCATCCGTGAGGAGC  
TGGGAACTGTCAATGGCATGACGATCACGATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT  
GCCTGCTCACCAGTATCGTGTGACGCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG  
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC  
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTCAGTTTCATCC  
TCACTCCCCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGATGCACCCGATGCCCCGTGTCAACGAGATAA  
GCGTGGAAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGCATGGCTC  
TGTTAGCCACCGTGTGGGGCGTTTCTAGGGGCTGGCTTCCTCAGCCTCTTCTTTAGGCCAGCTGCTGGGC  
AAGGAATTCCAGTGCCTCCTACGGGGGCAGCACACTTAGATATTCCTGGACATCCAGATTGCTCACATGTGCTGA  
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGGTGGGGCCTCAGATGCTGGGGCCAGTCTGCCCA  
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG



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**FIGURE 693**

MAALVLEDGSVLRGQPFGA AVSTAGEVVFQ TGMVGYPEALTDP SYKAQILVLTYPLIGNYGIPPEMDEFGLCKW  
FESSGIHVAALVVGECCTPSHWSATRTLHEWLQOHGIPGLQGVD TRELTKKLREQSLLGKLVQNGTEPSSLPF  
LDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGA EVTVVPWDHALDSQEYEGFLFLSNGPGD  
PASYP SVVSTLSRVLSEPNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLT SQNHGFAVE  
TDSL PADWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT  
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAIKALKEENIQ TLLINPNIA TVQTSQGLADKV  
YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRAFAARMAEI  
GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSALVAPAFAH TSQVLVDKSLKGWKEI  
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTINDREYQLLRQTAIKVTQHLGIVGECNVQYALNPES  
EQYYII EVNARLSRSSALASKATGYPLAYVAAKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR  
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVSDMELETP TDKRIFVVAALWAGYSVDR  
LYELTRIDRWFLHRMKRIIAHAQ LLEQHRGQPLPPDLLQQA KCLGFSDKQIALAVLSTELAVRKL RQELGICPAV  
KQIDTVAAEWPAQTNYLYLTYWGTT HDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYN  
PETVSTDYDMCDRLYFDEISFEVVM DIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK  
FSRLLDTIGISQPQWRELSDESARQFCQTVGYPCVVRPSYVL SGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI  
SKFIQEAKEIDVDAVASDGVVAAIAI SEHVENAGVHSGDATLVTPPQDITAKTLERIKAI VHAVGQELQVTGPFN  
LQLIAKDDQLKVI ECNVRVRSRSPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGVKVPQFSF SRLAGAD  
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLL ES LGYSLYASLGTA D  
FYTEHGVKVTAVDWHFEEAVDGECPQRSILEQLAEKNFELVINLSMRGAGGRR LSSFVTKG YRTRRLAADFSVP  
LIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVR LPLGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV  
CAMPNTRPPIIDAPALALAQKLA EAGARCDFALFLGASSENAGTLGTVAGSAAGLKL YLNETFSELRLDSVVQWM  
EHFETWPSHLP IVAHAEQQTVA AVLMAQLTQRSVHICHVARKEEILLIKA AKARGLPVTCEVAPHHLFLSHDDL  
ERLGPGKGEVRPELGS RQDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLTAVSEGRLSL  
DDLQRLHNNPRRIFHLPPQEDTYVEVDLEHEWTIP SHMPFSKAHWTPFEGQKVKGTVRRVVL RGEVAYIDGQVL  
VPPGYGQDVRKWPQGA VPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK  
VAEPELMGTPDGTICYP PPVPVPRQASPNLGTPLGLLHPQTSPLLHSLVGQHILSVQQFTKDQMSHLFNVAHTLRMM  
VQKERSLDILKGKVMASMFYEVSTR TSSSFAAAMARLGGA VLSFSEATSSVQKGESLADSVQTMSCYADVVL RH  
PQPGAVELAAKHCRPVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVS  
LRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEEALPD TDVLYMTRI QKERFGSTQEY EACFGQFILT PHIMTRA  
KKKMVMHMPMRVNEISVEVDS DPRAAYFRQAENGM YIRMA LLATV LGRF

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**FIGURE 694**

GGAGCACCAAGGGAACGGAAAAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCCTGGTGCCCTGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGGTACAGAAGCAAGTTTGAGGTCGGGCTGAA  
GCAGGGTCACTGGCCAGCCGTGCGTCGCGCTCGCCAGCGGCTCCCCCTTCTCCTCGGCGGGCCTGCGGTTCTGAT  
TTCGTCCCTGACGCTTCCCGACCCTGCCAGCCAGATATGCACCCAATGTCCAGGGAGCGTGCAAAATTTGTCAA  
AAGTGGCCTTTTATTGTAAAACGACACGAGAGCTAATGCTGCATGCCCGTTGCTGCCTGAATCAGAAGGGCACCA  
TCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAAACTTTCATCAGGCACATACCACTGTCA  
TCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTAÇTCAGCTCCAGACTC  
TGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTATATAGACAACC  
AAATCTGTCAAGGGCAAAAGAACCCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAATGGATCTTGTG  
TACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATGCGCCAGGGCT  
CGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTTTGGGCGACCC  
AGCGCCGAAAAGCCAAGACTTCA~~TGA~~ACTACATAGGTCTTACCATTGACCTAAGATCAATCTGAACTATCTTAGC  
CCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTGCGCTCAAGGTTGAGGCCGCCATTGG  
AAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCCATTTGGTGTGTTGCCTATAATAAACACTT  
TTTCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 695**

MLHARCCLNQGKGTILGLDLQNCSEDPGPNFHAHTTVIIDLQANPLKGDLANTRGFTQLQTLILPQHVNCPPG  
INAWNTITSYIDNQICQGQKNLCNNTGDPMECPENGSCVPDGPGLLQCVCADGFHGYKCMRQGSFSLMFFGILG  
ATTLSVSILLWATQRRKAKTS

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**FIGURE 696**

GGAGCACCAAGGGAACGGAATAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGATATGCACCCAATGTCCAGGGAGCGTGCAA  
AATTTGTCAAAAGTGGCCTTTTATTGTAAAACGACACGAGAGCTAATGCTGCATGCCCGTTGCTGCCTGAATCAG  
AAGGGCACCATCTTGGGGCTGGATCTCCAGAAGTGTCTCTGGAGGACCCTGGTCCAACTTTCATCAGGCACAT  
ACCACTGTCATCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTACTCAG  
CTCCAGACTCTGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTAT  
ATAGACAACCAAATCTGTCAAGGGCAAAGAACCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAAT  
GGATCTTGTGTACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTCCATGGATACAAGTGTATG  
CGCCAGGGCTCGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGCTCTCCATTCTGCTT  
TGGGCGACCCAGCGCCGAAAAGCCAAGACTTCATGAAGTACATAGGTCTTACCATTGACCTAAGATCAATCTGAA  
CTATCTTAGCCCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTCCGCTCAAGGTTGAGG  
CCGCCATTGGAAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCTTGGTGTGTTGCCTATA  
ATAAACACTTTTTCTTTTAAAAA

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**FIGURE 697**

MLHARCCLNQKGTTILGLDLQNC SLEDPGPNFHQAHTTVIIDLQANPLKGD LANTFRGFTQLQTLILPQHVNCPGG  
INAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLLQCV CADGFHGYKCMRQGSFSLLMFFGILG  
ATTLSVSILLWATQRRKAKTS

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**FIGURE 698**

GC GCCCTAGCCCTCTTTTCGGGGATACTGGCCGACCCCTCTTCCTTTTCCCCTTTAGTGAAGGCCTCCCCCGTCG  
CCGCGCGGGCTTCCCGGAGCCGACTGCAGACTCCCTCAGCCCGGTGTTCCCGCGTCCGGACGCCGAGGTCGCGGC  
TTCGCAGAAACTCGGGCCCCCTCCATCCGCCCTCAGAAAAGGGAGCGATGTTGATCTCAGGAAGCACAAAGGGACC  
TTCCTAGCTCTGACTGAACCACGGAGCTCACCTGGACAGTATCACTCCGTGGAGGAAGACTGTGAGACTGTGGC  
TGGAAGCCAGATTGTAGCCACACATCCGCCCTGCCCTACCCAGAGCCCTGGAGCAGCAACTGGCTGCAGATCA  
CAGACACAGTGAGGATATGAGTGTAGGGGTGAGCACCTCAGCCCTCTTTCCCCAACCTCGGGCACAAAGCGTGGG  
CATGTCTACCTTCTCCATCATGGACTATGTGGTGTTCGTCCTGCTGCTGGTTCTCTCTCTTGCCATTGGGGCTCTA  
CCATGCTTGTTCGTGGCTGGGGCCGGCATACTGTTGGTGAGCTGCTGATGGCGGACCGCAAAATGGGCTGCCTTCC  
GGTGGCACTGTCCCTGCTGGCCACCTTCCAGTCAGCCGTGGCCATCCTGGGTGTGCCGTGAGAGATCTACCGATT  
TGGGACCCAATATTGGTTCTTGGGCTGCTGCTACTTTCGTTGGGCTGCTGATACCTGCACACATCTTCATCCCCGT  
TTTCTACCGCCTGCATCTCACCAGTGCCATGAGTACCTGGAGCTTCGATTCAATAAAACTGTGCGAGTGTGTGG  
AACTGTGACCTTCATCTTTCAGATGGTGATCTACATGGGAGTTGTGCTCTATGCTCCGTCAATTGGCTCTCAATGC  
AGTGAAGTGGCTTTGATCTGTGGCTGTCCGTGCTGGCCCTGGGCATTGTCTGTACCGTCTATACAGCTCTGGGTGG  
GCTGAAGGCCGTCACTGAGACAGATGTGTTCCAGACACTGGTTCATGTTCCCTCGGGCAGCTGGCAGTTATCATCGT  
GGGGTCAGCCAAGGTGGGCGGCTTGGGGCGTGTGTGGGCCGTGGCTTCCCAGCACGGCCGCATCTCTGGGTTTGA  
GCTGGATCCAGA CCCCCTTTGTGCGGCACACCTTCTGGACCTTGGCCTTTCGGGGGTGTCTTCATGATGCTCTCCTT  
ATACGGGGTGAACCAGGCTCAGGTGCAGCGGTACCTCAGTTCCCGCACGGAGAAGGCTGCTGTGCTCTCCTGTTA  
TGCAGTGTTCCTTCCAGCAGGTGTCCCTCTGCGTGGGCTGCCTCATTGGCCTGGTCATGTTGCGGTATTACCA  
GGAGTATCCCATGAGCATTACAGCAGGCTCAGGCAGCCCCAGACCAGTTTCGTCTGTACTTTGTGATGGATCTCCT  
GAAGGGCCTGCCAGGCCTGCCAGGGCTCTTCATTGCCTGCCTCTTCAGCGGCTCTCTCAGCACTATATCCTCTGC  
TTTTAATTCATTGGCAACTGTTACGATGGAAGACCTGATTGCACCTTGGTTCCCTGAGTCTCTGAAGCCCGGGC  
CATCATGCTTTCCAGAGGCCCTTGCCCTTGGCTATGGGCTGCTTTGTCTAGGAATGGCCTATATTTCTCCAGAT  
GGGACCTGTGCTGCAGGCAGCAATCAGCATCTTTGGCATGGTTGGGGACCGCTGCTGGGACTCTTCTGCCTTGG  
AATGTTCTTTCCATGTGCTAACCCTCCTGGTGTGTTGTGGGCTGTTGGCTGGGCTCGTCATGGCCTTCTGGAT  
TGGCATCGGGAGCATCGTGACCAGCATGGGCTTCAGCATGCCACCCTCTCCCTCTAATGGGTCCAGCTTCTCCCT  
GCCCCAATCTAACCCTTGCCACTGTGACCACACTGATGCCCTTGACTACCTTCTCCAAGCCCACAGGGCTGCA  
GCGGTTCTATTCTTGTCTTACTTATGGTACAGTGCTCACAACCTCCACCACAGTGATTGTGGTGGGCTGATTGT  
CAGTCTACTCACTGGGAGAATGCGAGGCCGCTCCCTGAACCCTGCAACCATTACCCAGTGTGCCAAAGCTCCT  
GTCCCTCCTTCCGTTGTCTGTGAGAGCGGCTCCACTGCAGGAGCTACGGCCAGGACCACCTCGACACTGGCCT  
GTTTCCTGAGAAGCCGAGGAATGGTGTGCTGGGGGACAGCAGAGACAAGGAGGCCATGGCCCTGGATGGCACAGC  
CTATCAGGGGAGCAGCTCCACCTGCATCCTCCAGGAGACCTCCCTGTGATGTTGACTCAGGACCCCGCCTCTGTC  
CTCACTGTGCCAGGCCATAGCCAGAGGCCACCCTGTAGTACAGGGATGAGTCTTGGTGTGTTCTGCAGGGACAGG  
CCTGGATGATCTAGCTCATACCAAAGGACCTTGTCTGAGAGGTTCTTGCTGCAGGAGAAGCTGTACATCTCA  
AGCATGTGAGGACCGTTTTTCTCGTCGCTTGCCAATCTGTTTTTAAAGGATCAGGCTCGTAGGGAGCAGGATC  
ATGCCAGAAATAGGGATGGAAGTGCATCCTCTGGGAAAAAGATAATGGCTTCTGATTCAACATAGCCATAGTCTT  
TTGAAGTAAGTGGCTAGAAAACAGCACTCTGGTTATAATTGCCCCAGGGCCTGATTACAGGACTGACTCTCCACCAT  
AAAAGTGAAGCTGCTTCCCCTGTAGTCCCCATTTAGTACCAGTTCTGCCAGCCACAGTGAGCCCCTATTATTA  
CTTTCAGATTGTCTGTGACACTCAAGCCCCCTCTCATTTTTATCTGTCTACCTCCATTCTGAAGAGGGAGGTTTTG  
GTGTCCCTGGTCTCTGGGAATAGAAGATCCATTTGTCTTTGTGTAGAGCAAGCACGTTTTCCACCTCACTGTCT  
CCATCCTCCACCTCTGAGATGGACACTTAAGAGACGGGGCAATGTGGATCCAAGAAACCAGGGCCATGACCAGG  
TCCACTGTGGAGCAGCCATCTATCTACCTGACTCCTGAGCCAGGCTGCCGTGGTGTGCTTTCTGTCTATCCGTGCT  
CTGTTTTCTTTTGGAGTTTCTTCTCCACATTATCTTTGTTTCTGGGAATAAAAACTACCATTGGACCTAAAAA  
AAAAAAAAAAAA

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**FIGURE 699**

MSVGVSTSAPLSPTSGTSVGMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELLMADRKMGCPLVALSL  
LATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYLELRFNKTVRVC GTVTFI  
FQMVIYMGVVL YAPSLALNAVITGFDLWLSVLALGIVCTVYTALGGLKAVIWDV FQTLVMFLGQLAVIIVGSAKV  
GGLGRVWAVASQHGRISGFELDPDPFVRHTFWTLAFGGVFMMLSLYGVNQAQVQRYLSSRTEKAAVLSCYAVFPF  
QQVSLCVGCLIGLVMFAYYQEYPMSIQQAQAAPDQFVLYFVMDLLKGLPGLPGLFIACLFSGSLSTISSAFNSLA  
TVTMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQMGPVLQAAISIFGMVGGPLLGLFCLGMFFPC  
ANPPGAVVGLLAGLVMAFWIGIGSIVTSMGFSPSPSNGSSFSLPTNLTVATVTTL MPLTTFSKPTGLQRFYSL  
SYLWYSAHNSTTVIVVGLIVSLLTGRMRGRSLNPATIIYPVLPKLLSLLPLSCQKRLHCRSYGQDHLD TG LFP EKP  
RNGVLGDSRDKEAMALDGTAYQGSSSTCILQETSL

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**FIGURE 700**

GCCTGCGCGGAGGGAGCCGCGAGACAGGTGCGCATGCGCAGTGC GCGTCTGCGAGACCGACTTGGACGGAGCCGA  
GCTGAGGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTGTGAGAGGGGTAGGGAGTGCTCCCG  
GCGGCGACGGGGCCGAGTTCACCAGCCGCCGGGGCAGTAGTCGAAGGCCCGGCGCGGCATGTCTGGGTGCCGCG  
GTGCGGGCAGTGAAACGCGCGCCGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGT  
TGTACGCGCTTCAGGTCGACCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCAAGACAGGCA  
TAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGAGTGCCTCCTTGCTGCACTCCCATG  
ACACAGAGACACGGGCCACCATGAACTTGGCACTGGCTGGTGACATCCTTGCTGCAGGGCAGGATGCCCCACTGTC  
AGCTCCTGCGCTTCAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGGTTC AAGGAGCAGGGGCCTC  
GACAAAGGAAGGGAGCAGCCCCAGCAGAGAAGAAATGTGGAGCGGAAACCCAGCACGAGGGGCTAGAACTCAGGG  
TAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCACTGCAGAAAGTTGTGTGCTTCAACCACGATA  
ATACCCTGCTTGCCACTGGAGGAACAGATGGCTACGTCCGTGTCTGGAAGGTGCCCAGCCTGGAGAAGGTTCTGG  
AGTTCAAAGCCCACGAAGGGGAGATTGAAGACCTGGCTTTAGGGCCTGATGGCAAGTTGGTAACCGTGGGCGGGG  
ACCTTAAGGCCTCTGTGTGGCAGAAGGATCAGCTGGTGACACAGCTGCACTGGCAAGAAAATGGACCCACCTTTT  
CCAGCACACCTTACCGCTACCAGGCCTGCAGGTTTTGGGCAGGTTCCAGACCAGCCTGCTGGCCTGCGACTCTTCA  
CAGTGCAAATTTCCCAACAAGCGCCTGCGCCAGCCCCCTCCCTGCTACCTCACAGCCTGGGATGGCTCCAATTCT  
TGCCCCCTTCGGACCAAGTCCTGTGGCCATGAAGTCGTCTCCTGCCTCGATGTCAGTGAATCCGGCACCTTCCTAG  
GCCTGGGCACAGTCACTGGCTCTGTTGCCATCTACATAGCTTTCTCTCTCCAGTGCCTCTACTACGTGAGGGAGG  
CCCATGGCATTGTGGTGACGGATGTGGCCTTTCTACCTGAGAAGGGTCGTGGTCCAGAGCTCCTTGGGTCCCATG  
AAACTGCCCTGTTCTCTGTGGCTGTGGACAGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCCCTG  
TGTGGCTCCTGCTCCTGTGTGTGTGCGGGCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCTTTCCAGGTT  
TCCTTTAGCTTCCCTGCTTCTGGGAATCAGGAGCCTGGACACTGCCATCTCTAGAGCAGAGTGGAGGCCTGGAC  
TCCCTTTGCTCACTCCATTCGGGTCCACAGCTGAGGTTGCCGCTGACAAGATGAATGGGCACTGCCTGCCCTTCT  
AGTGAAAAGGCTTGGCTATGGCCCTGTGTGACTCCAGGTCCCAGGAACCTTGCCTTCGTATCTGTGGATCCATC  
CAGAACAGCGGTATCTGAAGCCCAGGCCATACTCCCTGCCTCCTTTCTTCTGCCTACCAGAGGCTCCAGAGTTGA  
GCTTGTCCTTATCTAGAAACATGTGAAGATGCCCAAGAGCCTGGAGGCACTGCTGTCCTTCTGCAGAAACAGTT  
TCTCCTCCTCCCCTCAGCCTTGTGGCCAGTTCCTCTTACATGAAGCCCCTGGCATTGCTGGGGAAGGGACTGG  
CCTGGTACTTGCTGTTAGGGCAGGAAGGGGCAAAAGGAAGACTGGGTAGTAATCTGGGGGTTTCAGATGGGTAGC  
ACTAAGCCAGCTGGCCTAAAGATGCAATAAGTTCTAGGTAGTCTACCTTACCTTGAGGAATGGGAAAATGAAC  
CTCAGCCCATTAGGCAGGAAAAGTTGATATTTAATAAACAAGGAAAGAGTGAAGTGAAGACCC



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**FIGURE 701**

GTAGCCTCATGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGTCC  
TGGATGACCTCCGCCGCTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGGCTCCGTCCCCATCGCCA  
CGGTCACTCATCAACGAGGCCAGTGGTAGCCGCACCATCCTATACTATGACAGGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGATGGTCTGTGAGGAAAGGGGCTGTGCTTGTCT  
GTGCCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTCCACTCGGATGCTTCCCCGCCAC  
CCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCCTCCGTATCTTCAGCCTCTCCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCCGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCCCTCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCTCAGAGCCAG  
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCACTTCTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCCAAATTAACCTCTCCGCCAGGCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACCAGCCTGTGATTGATGGGGT  
CTTCATTGTCCAGAAATACCTCCTCCCCTGACTGCCCCAGAGCCTGAAAGTCTCACCCCTGGAGCCCACCTTGG  
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACCTCCAATATAGGGTGGGTAAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAA

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**FIGURE 702**

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFVLDD  
LRRYSVDLRYTVFQTTGSP IATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWIIHIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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**FIGURE 703**

GTAGCCTCATGGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGACTTCCTGG  
TGGCCGACTTCAGGCGGCGGGGCGTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCCAGCTCCT  
GCTGCATCATCAACAACCTCCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTTCGTGTGAGGAAAAGGGCTGTGCTTGTCT  
GTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCGCCGCCAC  
CCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTATCTTCAGCCTCTCCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGGCTGCATCGCCTTCTCCCTCCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCAAGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCCTCAGAGCCAG  
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCTTGAAGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCCAAATTAACCTCTCCGCCAGGCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACCAGCCTGTGATTGATGGGGT  
CTTCATTGTCCAGAAATACCTCCTCCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCCCTGGAGCCCACCTTGG  
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACCTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAAAAAA

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**FIGURE 704**

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFLVAD  
FRRRGVDVSQVAWQSKGDTFSSCCIINNSNGNRTIVLHDTSLPDVSATDFEKVDLTQFKWIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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**FIGURE 705**

ATGCCCCCGCACCCCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCCGCCAGCTACCCT  
CCTCGAGGTTTCAGCCTCTACACAGGTTCCAGTGGGGCCCTCAGCCCCGGGGGGCCCCAGGCCAGATTGCCCCC  
CGGCCAGCCAGCCGCCACAGGAAC TGGTGTGCCTACGTGGTGACCCGGACAGTGAGCTGTGTCTTGAGGATGGA  
GTGGAGACATATGTCAAGTACCAGCCTTGTGCCTGGGGCCAGCCCCAGTGTCCCCAAAGCATCATGTACCGCCGC  
TTCTCCGCCCTCGCTACCGTGTGGCCTACAAGACAGTGACCGACATGGAGTGGAGGTGCTGTCAGGGTTATGGG  
GGCGATGACTGTGCTGAGAGTCCCGCTCCAGCGCTGGGGCCTGCGTCTTCCACACCACGGCCCCCTGGCCCCGCCT  
GCCCCCCCCAACCTCTCTGGCTCCAGTGCAGGCAGCCCCCTCAGTGGACTGGGGGGAGAAGGTCCTGGGGAGTCA  
GAGAAGGTGCAGCAGCTGGAGGAACAGGTGCAGAGCCTGACCAAGGAGCTGCAAGGCCTGCGGGGCGTCTTGCA  
GGACTGAGCGGGCGCCTGGCAGAGGATGTGCAGAGGGCTGTGGAGACGGCCTTCAACGGGAGGCAGCAGCCAGCT  
GACGCGGTGCCCCGCCCTGGGGTGCATGAAACCCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCGC  
GTCTCCACCCACGACCAGGAGCTGGGTACCTCAACAACCATCATGGCGGCAGCAGCAGCAGTGGGGGCAGCAGG  
GCCCCAGCCCCAGCCTCAGCCCCCTCCGGGGCCCCAGTGAGGAGCTGCTGCGGCAGCTGGAGCAGCGGTTGCAGGAG  
TCCTGCTCCGTGTGCTTGGCCGGGCTAGATGGCTTCCGCCGGCAGCAGCAGGAGGACAGGGAGCGGCTGCAGCG  
ATGGAGAAGCTGCTGGCCTCGGTGGAGGAGCGGCAACGGCACCTCGCAGGGCTGGCGGTGGGCCGAGGCCCCCT  
CAGGAATGCTGCTCTCCAGAGCTGGGCCGGCGACTGGCAGAGCTGGAGCGCAGGCTGGATGTCTGTGGCCGGCTCA  
GTGACAGTGTGAGTGGGCGGCGAGGCACAGAGCTGGGAGGAGCCGCGGGGCAGGGAGGCCACCCCCAGGCTAC  
ACCAGCTTGGCCTCCCGCCTGTCTCGCCTGGAGGACCGCTTCAACTCCACCCTGGGCCCTTCGGAGGAGCAGGAG  
GAGAGCTGGCCTGGGGCTCCTGGGGGGCTGAGCCACTGGCTGCCTGCTGCCCGGGGCCGACTAGAGCAGTTGGGG  
GGGCTGCTGGCCAATGTGAGCGGGGAGCTGGGGGGCGGTTGGATCTGTTGGAGGAGCAGGTGGCAGGGGCCATG  
CAGGCATGCGGGCAGCTCTGCTCTGGGGCCCCCTGGGGAGCAGGACTCTCAAGTCAGCGAGATCCTCAGTGCCTTG  
GAGCGCAGGGTGTGACAGTGAGGGGCAGCTGCGGCTGGTGGGCTCCGGCCTGCACACGGTGAAGCAGCGGGG  
GAGGCCCCGGCAGGCCACGCTGGAGGGATTACAAGAGGTTGTGGGCCGGCTCCAGGATCGTGTGGATGCCAGGAT  
GAGACAGCTGCAGAGTTACACTACGGCTGAATCTCACTGCGGCCCGGCTAGGCCAACTGGAGGGGCTGCTGCAG  
GCCCCATGGGGATGAGGGCTGTGGGGCCTGTGGCGGAGTCCAAGAGGAATAAGGCCGCTTCGGGATGGTGTGGAG  
CGCTGCTCCTGCCCCCTGTTGCCTCCTCGGGGTCTGGGGCTGGTCCAGGTGTTGGGGGCCCAAGCCGTGGGGCC  
CTGGACGGCTTCAGCGTGTGTTGGGGGCAGCTCAGGCTCAGCCCTGCAGGCCCTGCAAGGAGAGCTCTCTGAGGTT  
ATTCTCAGCTTCAGCTCCCTCAATGACTCACTGAATGAGCTCCAGACCACTGTGGAGGGCCAGGGCGCTGATCTG  
GCTGACCTGGGGGCAACCAAGGACCGTATCATTTCTGAGATTAACAGGCTGCAGCAGGAGGCCACAGAGCATGCT  
ACAGAGAGTGAAGAGCGCTTCCGAGGCCTAGAGGAGGGACAAGCACAGGCCCGGCCAGTGCCCCAGCTTAGAGGGG  
CGATTGGGCCGTCTTGAGGGTGTCTGTGAACGGTTGGACACTGTGGCTGGGGGACTGCAGGGCCTGCGCGAGGGC  
CTTTCCAGACACGTGGCTGGGCTCTGGGCTGGGCTCCGGGAAACCAACACCACCAGCCAGATGCAGGCAGCCCTG  
CTGGAGAAGCTGGTCCGGGGACAGGCGGGCCTGGGCAGGCGGCTGGGTGCCCTTAACAGCTCCCTGCAGCTCCTG  
GAGGACCGTCTGCACCAGCTCAGCCTGAAGGACCTCACTGGGCCTGCAGGAGAGGCTGGGCCCCAGGGCCTCCT  
GGGCTGCAGGGACCCCCAGGCCCTGCTGGACCTCCAGGATCACCAGGCAAGGACGGGCAAGAGGGCCCCATCGGG  
CCACCAGGTCTCTAAGGGGAACAGGGAGTGGAGGGGGCACCAGCAGCCCCCTGTGCCCCAAGTGGCATTTCAGCT  
GCTCTGAGTTTGCCCCGGTCTGAACCAGGCACGGTCCCTTCGACAGAGTCCTGCTCAATGATGGAGGCTATTAT  
GATCCAGAGACAGGCGTGTTACAGCGCCACTGGCTGGACGCTACTTGCTGAGCGCGGTGCTGACTGGGCACCGG  
CACGAGAAAGTGGAGGCGTGCTGTCCCGCTCCAACCAGGGCGTGGCCCGGTAGACTCCGGTGGCTACGAGCCT  
GAGGGCCTGGAGAATAAGCCGGTGGCCGAGAGCCAGCCAGCCCGGGCACCTGGGCGTCTTCAGCCTCATCCTG  
CCGCTGCAGGCCCGGGACACGGTCTGCGTCGACCTGGTTCATGGGGCAGCTGGCGCACTCGGAGGAGCCGCTCACC  
ATCTTCAGCGGGGCCCTGCTCTATGGGGACCCAGAGCTTGAACACGCGTAGACTGGGGTCCCGCCCCGACGTGTCT  
ACGTCCGGCTGAAGAGACAGCGGGGGCGGGGCTCCTGGGGTCTCGCCTGAGACGGGGCACCTAGCCCTGGGCGA  
GCGCCGCACCCGGGGCCCGCAGCGGCACCGCGCCAGAGCGGCCTCTCCCCACGCCCGGGGCGCGCGGCTCAGGG  
AGGCTCGGGGCGGCCCATGCAGACTTTTGGCCTGGCGGATCCCCAAGAACCCTCCAGGGCGGGCCTGCGGAG  
GAGCCGATCCTCGCACCCCTCCGCTCCCTCCACTGGCCCTCCAGGTGCGATTCCCTGGGCTCCAGGCTCCCCCGCGC  
GGGCGCCGCCACCGCCATACTAAACGATCGAGGAATAAAGACACTTGGTTTTTCT

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**FIGURE 706**

MAPRTLWSCYLCCLLTAAAGAASYPPRGFSLYTGSSGALSPGGPQAQIAPRPASRHRNWCAIVVTRTVSCVLEDG  
VETYVKYQPCAWGQPQCPQSIMYRRFLRPRYRVAYKTVTDMEWRCQGYGGDDCAESPAPALGPASSTPRPLARP  
ARPNLSGSSAGSPLSGLGGEGPGESEKVQQLLEEQVQSLTKELQGLRGVLQGLSGRLAEDVQRAVETAFNGRQQPA  
DAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSSGSRAPAPASAPPGPSEELLRQLEQRLQE  
SCSVCLAGLDGFRQQQEDRERLRAMEKLLASVEERQRHLAGLAVGRRPPQECCSPELGRRRLAELERRLDVVAGS  
VTVLSGRRGTTELGAAGQGGHPPGYTSLASRLSRLED RFNSTLGPSEEQESWPGAPGGLSHWLPAARGRLEQLG  
GLLANVSGELGGRDLLEE QVAGAMQACGQLCSGAPGEQDSQVSEILSALERVRVDSEGQLRLVGSGLHTVEAAG  
EARQATLEGLQEVVGRQLQDRVDAQDETA AEFTLRLNLTAARLGQLEGLLQAHGDEGCGACGGVQEELGRLRDGVE  
RCSCPLLPPRGPGAGPGVGGPSRGPLDGFVSFVGSSGSALQALQGEELSEVILSFSSLND SLNELQTTVEGQGADL  
ADLGATKDRI ISEINRLQQEATEHATESEERFRGLEEGQAQAGQCPSLEGR LGRLEGVCERLDTVAGGLQGLREG  
LSRHVAGLWAGLRETNTTSQMQAALLEKLVGGQAGLGRR LGALNSSLQLEDRLHQLSLKDLTG PAGEAGPPGPP  
GLQGPPGPAGPPGSPGKDGQEGPIGPPGPQGEQGVGAPAAPVPQVAFSAALSLPRSEPGTVPFDRVLLNDGGYY  
DPETGVFTAPLAGRYLLSAVLTGHRHEKVEAVLSRSNQGVARVDSGGYEPEGLENKPVAESQPSPGTLGVFSLIL  
PLQAGDTVCDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

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**FIGURE 707**

GGCACGAGGGGCACCGCGGCGCTCGGGTGTTTTTGGGGGCCCGGGTGGAGGGCCCGGGTGCCGGGGCCCAAGGTG  
CGGCCTCGCTAGCGGGAGAGGGAGCGGGATCACCGGCCCGAGAGAGCTCTCAGGGCCAGAGCGGGGCAGGAGGA  
TGCTTTCCAGCCCCACCATGGAGCTGCGCTGTGGGGGATTGCTGTTTCACTTCTCGCTTTGATTACAGGGAATCTA  
GCCCACGTGGAGAAGGTGGAATCTTTGTCCAGTGATGGGGAAGGGGTAGGAGGTGGGGCGTCAGCCCTGACCAGT  
GGCATTGCCTCTTCCCCTGACTATGAATTCAACGTGTGGACCCGACCAGACTGTGCTGAAACGGAATTTGAGAAT  
GGGAACAGGTCATGGTTCTACTTCAGCGTCCGGGGAGGAATGCCAGGAAAACATCAAGATCAACATTATGAAC  
ATGAACAAGCAGAGCAAGCTGTATTCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCACCCGGCCACGCTGG  
GAACGCATTGAGACCGGGCCACCTTTGAGATGACAGAGACGCAGTTTGTGTTATCCTTTGTTTCATCGTTTCGTG  
GAGGGCCGTGGGGCCACCACCTTCTTCGCTTCTGCTACCCCTTCTCCTACAGTGACTGCCAGGAACCTGCTAAAC  
CAGCTAGACCAGCGCTTTCGGGAGAACCACCCTACCCATAGCAGCCCCCTGGATACCATCTATTACCATCGGGAG  
CTCCTTTGCTATTCTCTGGATGGACTTCGTGTAGATCTGCTGACGATCACTTCCTGCCATGGGCTTCGAGAAGAT  
CGAGAGCCCCGTCTAGAGCAGCTATTTCCTGATACCAGACCCCTCGACCATTCCGTTTCGCAGGCAAGAGGATA  
TTCTTCTTAAGCAGTAGAGTACACCCAGGGGAGACTCCATCTAGCTTTGTCTTCAATGGCTTTCTGGACTTCATC  
CTCCGACCTGATGATCCCCGGGGCCAAACCCTCCGTGCGCTCTTCGTCTTTAAGCTGATTCCCATGTTGAACCC  
GATGGTGTGGTCCGGGGACACTACCGCACAGACTCACGTGGAGTGAATCTGAACCGTCAGTACCTGAAGCCTGAT  
GCCGTCTGCACCCGGCCATCTATGGGGCCAAAGCTGTGCTTCTTACCACCATGTGCACTCTCGTCTGAACCTCC  
CAGAGTTCTCTGAGCACCAGCCCAGTTCTGTCTCCCTCCTGATGCTCCTGTTTCTGACCTGGAGAAAGCCAAC  
AATCTCCAAAATGAAGCTCAGTGTGGGCACTCAGCTGACAGGCATAACGCTGAAGCCTGGAAACAAACAGAGCCA  
GCAGAACAGAAGCTCAACAGTGTGTGGATTATGCCACAACAGTCTGCGGGGCTTGAAGAGTCAGCCCCTGATACC  
ATCCCCCCCCAAAGAGAGTGGCGTTGCTTACTATGTGGACCTGCATGGACATGCTTCCAAAAGGGGCTGCTTCATG  
TACGGAAACAGCTTTAGTGAIGAGAGCACCCAGGTGGAAAACATGCTATATCCAAAGCTCATCTCCTTGAATTCA  
GCCCCACTTCGACTTCCAGGGCTGCAATTTCTCAGAGAAGAATATGTATGCCCGAGACCGTAGAGATGGCCAGTCT  
AAAGAGGGAAGCGGCCGTGTTGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACACACTTGAATGCAACTAC  
AACACTGGACGCTCAGTAAACAGCATCCCTGCTGCCTGCCATGACAATGGGCGTGCCAGCCCCCTCCCCGCGG  
GCTTTCCCCTCCAGATACACTGTGGAATATTTGAGCAGGTGGGACGAGCTATGGCCATTGCAGCCCTGGACATG  
GCGGAATGTAATCCGTGGCCCCGAATTGTACTGTGAGCAGCAGCAGCCTTACTAATCTACGGGCTGGATGCTG  
AAACATGTACGCAACAGCCGAGGCCTAAGCAGCACTCTGAATGTGGGTGTCAACAAGAAGAGGGGCTTCGAACT  
CCACCCAAAAGTCACAATGGGTGCTGCTCCTGCTCCGAAAACACCTTGAGTCGGGCACGAAGTTTTAGCACC  
GGCACAAGTGCCGTGGTAGCAGCAGCAGCCAACAAAATTCTCCACAGATGAAGAATTCCCCCAGCTTTCTTTT  
CATGGCAGTCGGCTGCAGGGCTGCCAGGCCTGGGCTCTAGTACCCAAAAGGTCACCCACCGGGTGTGGGCCCC  
GTCAGAGAGCCCCGAAGCCAGGACAGGAGACGGCAGCAGCAGCCCTGAACCATCGTCCTGCAGGCAGCCTCGCT  
CCATCCCCAGCTCCTACTAGTTCTGGCCCAGCCTCCTCACACAAGCTGGGCTCCTGTCTACTGCCTGATTCTTC  
AACATACCAGGGAGCAGTTGCTCACTCTTGTCTCTGGAGACAAACCAGAGGCTGTCATGGTAATCGGGAAAGGT  
CTGCTAGGGACTGGAGCTCGGATGCCCTGCATCAAGACTCGATTGCAGACCTGTCCGAGGAGAGTTTTCCGCCAGG  
AGGGGTCCCGGATTCCCCAGGCTAGGCCAGGTGGGGCCGGGGCTCACCGCCGACTCGCAGAGGGATGAAAGGCT  
CTTCAGGCCCCACATCCCCCTACCCCCCGACCAGGGAGAGCAGTGAGCTGGAGCTGGGATCCTGCTCTGTACAC  
CAGGGCTGCCTCAGGCCAGGCCCCACGGCCCCGCTCTGCCCTGCCTTTTCTCCTATATCCTGTAGTCTATCTG  
ACTCCCCATCCTGGAATTGTTACAGCAGGGGTCCCTTGGGCCAACCTGAGGTTTGTGTTTGTCCCTAAATCTCCCC  
CACTGACTGTTTCTCCCCGGGTCTGATAATGCCTTTATGTTCAATCCAGGATATAGCCCCAAGATGGGGTAACA  
GTGGGAAATATGCTAGTTCCCCTCAGGCCGCTGATTCCATGTGACAGCCGTTAAGTCCTTGGAAATGCCAGCCAC  
GCTGTCCAAGGCATTACAGAGTATCACCTTGAGACAGAACAAAACAGGGACCTGCCACCCCTTCCCTCCCTCCGC  
AGCACAAGATTTTGGGACCACAAAAAAGTCTATATTTTATATTGGGGGGAGGGAGTAGAAAAGCAAGCCCCT  
ATACTGGGCCCTATTCACTGGCAGCTTCTGTTCATAGGATTAAGGAAGACTCTGAGGAAATAAAAGTTGTTTG  
GAAAAATCCAAAAAATAAAAAAAAAA

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**FIGURE 708**

MNMNKQSKLYSQGMAPFVRTLPTRPRWERIRDRPTFEMTETQFVLSFVHRFVEGRGATTFFAFCYPFSYSDCQEL  
LNQLDQRFPENHPTHSSPLDTIYYHRELLCYSLDGLRVDLLTITSCHGLREDREPRLEQLFPDTSTPRPFRFAGK  
RIFFLSSRVHPGETPSSFVFNGFLDFILRPDDPRAQTLRRLVFVKLIPMLNPDGVVRGHRDTSRGVNLNRQYLK  
PDAVLHPAIYGAKAVLLYHHVHSRLNSQSSSEHQPSCLPPDAPVSDLEKANNLQNEAQCGHSADRHNAEAWKQT  
EPAEQKLNSVWIMPQQSAGLEESAPDTIPPKEGSAVYVVDLHGHASKRGCFMYGNSFSDESTQVENMLYPKLISL  
NSAHFDFQGCNFSEKNMYARDRRDQSGESGRVAIYKASGIIHSYTLNNTGRSVNSIPAACHDNGRASPPP  
PPAFPSRYTVELFEQVGRAMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLKHVRNSRGLSSTLNVGVNKKRGL  
RTPPKSHNGLFVSCSENTLSRARSFSTGTSAGGSSSSQONSPQMKNPSFPFHGSRPAGLPGLGSSTQKVTHRVL  
GPVREPRSQDRRRQQQLNHRPAGSLAPSPAPTSSGPASSHKLGSCLLPDSFNIPGSSCSLLSSGDKPEAVMVG  
KLLGTGARMPCIKTRLQTCPRVSARRGPGFPRLGPGWAGAHRRRLAEG



CCGCCCCCACTCTGGACTCCCGCGCTGGGCGCGCTGAGGCGGCCCCCGAGCGAGCGCGCTGCAGCCGCCGCCCG  
CCCGAGCACCCGAGCTCCGGCGCCGCGGCGAGACGGAGACGGACCGAGCCACGGGGCCCCGCGGCCGAGCATC  
TCGGAGGAGAAACATGCTTGCCAACTCAGCCAGCGTGAGGATCCTCATCAAGGGAGGCAAGGTGGTGAACGATGAC  
TGCACCACAGAGGCTGACGTCTACATCGAGAATGGCATCATCCAGCAGGTGGGCCGCGAGCTCATGATCCCTGGC  
GGGGCCAAGGTGATTGATGCCACAGGAAAACTGGTGATCCCTGGTGGCATCGACACCAGCACCCACTTCCACCAG  
ACCTTCATGAATGCCACGTGCGTGAGCACTTCTACCATGGGACCAAGGCAGCACTCGTCGGAGGCACCCACATG  
ATCATCGGCCACGTCTCTGCCGACAAGGAGACCTCCCTTGTGGACGCTTATGAGAAGTGCCGAGGTCTGGCCGAC  
CCCAAGGTCTGCTGTGATTACGCCCTCCACGTGGGGATCACCTGGTGGGCACCCAAGGTGAAAGCAGAAATGGAG  
ACACTGGTGAGGGAGAAGGGTGTCAACTCGTTCCAGATGTTTCATGACCTACAAGGACCTGTACATGCTTCGAGAC  
AGTGAGCTGTACCAAGTGTGTGACGCTTGCAAGGACATTGGGGCAATCGCCCGCGTCCATGCTGAAAATGGGGAG  
CTTGTGGCCGAGGGTGCTAAGGAGGCACTGGATTGGGGATCACAGGCCCAGAAGGAATCGAGATCAGCCGTCCA  
GAGGAGCTGGAAGCTGAAGCCACTCATCGTGTTATCACCATTGCAAACAGGACTCACTGTCCAATCTACCTGGTC  
AACGTGTCCAGTATCTCGGCTGGTGACGTTATCGCAGCTGCTAAGATGCAAGGGAAGGTTGTGCTGGCGGAGACC  
ACCACTGCACATGCCACGCTGCACAGGCTTACACTACTACCACCAGGACTGGTCCCACGCGGCTGCCTATGTACG  
GTGCTTCCCTGAGACTGGACACCAACACCTCAACCTACCTCATGAGCCTGCTGGCCAATGACACTCTGAACATC  
GTGGCATCAGATCACCGGCCCTTTCACCACAAAGCAGAAAGCTATGGGCAAGGAAGACTTCACCAAGATCCACAT  
GGAGTGAGTGGCGTGACAGGACCGCATGAGCGTCATCTGGGAGAGAGGAGTGGTTGGAGGAAAGATGGATGAGAAC  
CGTTTTGTGGCCGTTACAGTTCCAACGCAGCTAAGCTTCTGAACCTGTATCCCCGCAAGGGCCGCATTATTCCC  
GGAGCCGATGCTGATGTGGTGGTGTGGGACCCAGAAGCCACAAAGACCATCTCAGCCAGCACGCAGGTCCAGGGA  
GGAGACTTCAACCTGTATGAGAACATGCGCTGCCACGGCGTGCCACTGGTCACCATCAGCCGGGGGGCGCGTCGTG  
TATGAGAACGGCGTCTTCATGTGCGCCGAGGGGCACCGGCAAGTTCTGTCCCTGAGGTCTTCCAGACACTGTC  
TACAAGAAGCTGGTCCAGAGAGAGAAGACTTTAAAGGTTAGAGGAGTGGACCGCACTCCCTACCTGGGGGATGTC  
GCTGTTGTCTGTCACCCCTGGGAAAAAAGAGATGGGAACCCCACTCGCAGACACTCCTACCCGGCCCCGTACCCGG  
CATGGGGGCATGAGGGACCTTCACGAATCCAGCTTCAGCCTCTCTGGCTCTCAGATCGATGACCATGTTCCAAAG  
CGAGCTTCAGCTCGGATCCTCGCTCCTCCCGAGGCAGGTTCGAGTGGCATTGGTTAAAGGCATTGCCAAGCCCCC  
CGAGTGAGGACGCACCGCCGCCACCAGCCCCGCAACTCTCCAGCCGAAGCTGCAGGGGCAGGAGAGGCTGGGCTGG  
GTGGCACACCACCCGAGGGGGGCCCGGACCCACGGAGCCCTCCCTATGTCTGCAAAGTGATTCACTGTGCTTC  
GAGCCAACCTCTAACAGGCACTTTGAGATGTGTTCCCTCCTGCTGTAGTCCTTCTGCTTGGCCTCGGCGGGCTTT  
TCTGGGGCCCAGGAAGCCACACTATGCACAGAGCCCAATGCATAGAGCCCTGGCCAGCCCTTCCTCTCACTCCT  
GCCTCCGCTGGCTTTGGGAAAGCCAGACTTTAGTGCCCTGCCCCCTGGCTGACTGGCCAGTTGCCAGAGCACT  
TTAGCAGATGTGTTTTCAAAGTAAAGGCCTCCTCCCCACCCCTTAGGCCCCGTGGTGACATTTCCCAAGTCAGA  
CAGATGTCAGCTTCCCAGCCATGCCAGGACGTCTATCTCCCCAACCACCTCTGGCCCTGTGTAGGGGCAGG  
GATGGGGGTGGCTGGGACTCCTGGTGCCCCCGCCAGCTTCTCTGCGCCCCGCCACACCTCGGGGGGGTCAC  
AGGCCCAGAAGGGTAGCTGGGCGGGGCTCGAGGCTGGTGCCAGGCGCGTGTAAATGGTTTTGTTTTGCAGTTTTG  
TTTTGCGCAGTAGTTTTGTTTTGACTTGTTTGTGTCATCCTGTGAAAAATAACGGTGCTTGTGTCACTAGCATAGAA  
TAGCGACAGGAATAGATGTGGTCCCTTAGGAGACGCTGCACTTGACACCAACCAGACAGCACAGGGCAGGGGTGGT  
GGAGGGGGGCTGGGCTCACAGGCCTCTCTTTTCCCCGCTGCAGTCTTCTGGGCTGCGGGAGGCCCTGGCCCTTTC  
CCCTTCCCCCTCCCCCTCTTGTCTAGTTTTCCACATTTCCAAAAGGGGGCCTGGGATGCTAGCCCCAGAGATGCCAG  
CCCTTCAGGAAGCAGGTGTCTTTTCCCCCTCTCTGCCCCGTATCACTCCCAGCACTCCCCCTTGCCCTCCCCCTGTCT  
TCACCTGCCACCACACACACACACACACACACACACACACACACACGCATGGCTTCCTATAACTTCTTCTGCTG  
GACAGAGACTCAGCGCTCCTCCTGTGTGACTGGCAAGAGGCCTCATGCTTCTGAGAGAGGGTTCGACGCGGCCG

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**FIGURE 710**

MLANSASVRILIKGGKVVNDCTHEADVYIENGIIQQVGRELMIPGGAKVIDATGKLVIPGGIDTSTHFHQTFMN  
ATCVDDFYHGTKAALVGGTTMIIGHVLPDKETSLVDAYEKCRGLADPKVCCDYALHVGITWWAPKVKAEMETLVR  
EKGVSFQMFMTYKDLYMLRDSELYQVLHACKDIGAIARVHAENGELVAEGAKEALDLGITGPEGIEISRPEELE  
AEATHRVITIANRTHCPIYLVNVSSISAGDVIAAAKMQGKVLAETTTAHATLTGLHYHQDWSHAAAYVTVPPPL  
RLDTNTSTYLMSLLANDTLNIVASDHRPFTTKQKAMGKEDFTKIPHGVSQVDRMSVIWERGVSQVGGKMDENRFVA  
VTSSNAAKLLNLYPRKGRIIPGADADVVDPEATKTI SASTQVQGGDFNLYENMRCHGVPLVTISRGRVYENG  
VFMCAEGTGKFCPLRSFPDVTYKKLVQREKTLKVRGVDRTPYLGDVAVVHVPKGKEMGTPLADTPTRPVTRHGGM  
RDLHESSFSLSGSQIDDHVPKRASARILAPPGGRSSGIW



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**FIGURE 712**

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLMPHDLARAALTGLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVAGGVELMSDVP IRHSRKMRKMLMDLNKAKSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGHSADRLAAAFAVSRLEQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLPAFIKPYGTVTAANSSFLTDGASAMLIMAEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAMDSDFAEENYMGRTKVGLPPELEKFNWGGSLSLGHFFGATGCRLVMAAANRLRKEGGQYGLVAACAAGGQGHAMIVEAYPK

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**FIGURE 713**

GGCACGAGGCCACTGCTGTCTCTTCAGCTCAAGATGGTGGCCTGCCGGGCGATTGGCATCCTCAGCCGCTTTTC  
TGCCTTCAGGATCCTCCGCTCCCGAGGTTATATATGCCGCAATTTTACAGGGTCTTCTGCTTTGCTGACCAGAAC  
CCATATTAAGTATGGAGTCAAAGGGGATGTGGCAGTTGTTTGAATTAAGTCTCCCAATTCAAAGGTAAATACACT  
GAGTAAAGAGCTACATTTCAGAGTTCTCAGAAGTTATGAATGAAATCTGGGCTAGTGATCAAATCAGAAGTGCCGT  
CCTTATCTCATCAAAGCCAGGCTGCTTTATTGCAGGTGCTGATATCAACATGTTAGCCGCTTGCAAGACCCCTCA  
AGAAGTAACACAGCTATCACAAGAAGCACAGAGAATAGTTGAGAACTTGAAAAGTCCACAAAGCCTATTGTGGC  
TGCCATCAATGGATCCTGCCTGGGAGGAGACTTGAGGTTGCCATTTTCATGCCAATACAGAATAGCAACAAAAGA  
CAGAAAAACAGTATTAGGTACCCCTGAAGTTTGTGTTGGGGCCTTACCAGGAGCAGGAGGCACACAAAGGCTGCC  
CAAAATGGTGGGTGTGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTTCGTGCAGACAGGGCAAAGAA  
AATGGGACTGGTTGACCAACTGGTGGAAACCCCTGGGACCAGGACTAAAACCTCCAGAGGAACGGACAATAGAATA  
CCTAGAAGAAGTTGCAATTACTTTTGCCAAAGGACTAGCTGATAAGAAGATCTCTCCAAAGAGAGACAAGGGATT  
GGTGGAAAAATTGACAGCGTATGCCATGACTATTCCATTTGTCAGGCAACAGGTTTACAAAAAGTGGAAAGAAAA  
AGTGGGAAAGCAGACTAAAGGCCTTTATCCTGCACCTCTGAAAAATAATTGATGTGGTAAAGACTGGAATTGAGCA  
AGGGAGTGATGCCGGTTATCTCTGTGAATCTCAGAAATTTGGAGAGCTTGTAATGACCAAAGAATCAAAGGCCTT  
GATGGGACTCTACCATGGTCAGGTCCTGTGCAAGAAGAATAAATTTGGAGCTCCACAGAAGGATGTTAAGCATCT  
GGCTATTCTTGGTGCAGGGCTGATGGGAGCAGGCATCGCCCAAGTCTCCGTGGATAAGGGGCTAAAGACTATACT  
TAAAGATGCCACCCCTCACTGCGCTAGACCGAGGACAGCAACAAGTGTTCAAAGGATTGAATGACAAAGTGAAGAA  
GAAAGCTCTAACATCATTGAAAGGGATTCCATCTTCAGCAACTTGACTGGGCAGCTTGATTACCAAGGTTTTGA  
AAAGGCCGACATGGTGATTGAAGCTGTGTTTGAGGACCTTAGTCTTAAGCACAGAGTGCTAAAGGAAGTAGAAGC  
GGTGATTCCAGATCACTGTATCTTTGCCAGTAACACATCTGCTCTCCCAATCAGTGAAATCGCTGCTGTCAGCAA  
AAGACCTGAGAAGGTGATTGGCATGCACTACTTCTCTCCCGTGGACAAGATGCAGCTGCTGGAGATTATCACGAC  
CGAGAAAACTTCCAAAGACACCAGTGCTTCAGCTGTAGCAGTTGGTCTCAAGCAGGGGAAGGTCATCATTGTGGT  
TAAGGATGGACCTGGCTTCTATACTACCAGGTGCTTTCGCCCATGATGTCTGAAGTCATCCGAATCTCCAGGA  
AGGAGTTGACCCGAAGAAGCTGGATTCCCTGACCACAAGCTTTGGCTTTCTGTGGGTGCCGCCACACTGGTGGA  
TGAAGTTGGTGTGGATGTAGCGAAACATGTGGCGGAAGATCTGGGCAAAGTCTTTGGGGAGCGGTTTGAGGTTGG  
AAACCCAGAACTGCTGACACAGATGGTGTCCAAGGGCTTCTAGGTCGTAAATCTGGGAAGGGCTTTTACATCTA  
TCAGGAGGGTGTGAAGAGGAAGGATTTGAATTCTGACATGGATAGTATTTTAGCGAGTCTGAAGCTGCCTCCTAA  
GTCTGAAGTCTCATCAGACGAAGACATCCAGTTCCGCCTGGTGACAAGATTTGTGAATGAGGCAGTCATGTGCCT  
GCAAGAGGGGATCTTGGCCACACCTGCAGAGGGAGACATCGGAGCCGTCTTTGGGCTTGGCTTCCCGCCTTGCT  
GGGAGGGCCTTTCCGCTTTGTGGATCTGTATGGCGCCAGAAAGATAGTGACCGGCTCAAGAAATATGAAGCTGC  
CTATGGAACAGTTTACCCCATGCCAGCTGCTAGCTGACCATGCTAACAGCCCTAACAAAGATTCTACCAGTG  
AGCAGGCCCTCATGCCTCGCTCAGTCAGTGCACTAACCCAGCTGCCGGCAGTGCTGGTTCTCCAACAGAGTGGTG  
TCTAGATTTATCAGAGTAACGAGAAGACAAACTCCGGCACTGGGTTTGTCTCCCTGATTAAAGTGCCTTCAGCCAA  
GACCATCTCTCCCTCCTGGTGAAGTGTGACTTCGAATTAGTTTGCACCTTCTATTGGAAGGTAGAGCCCACTGCT  
CATTGTATAAGCCCCGAGGCCTAGAGTGGCAGCCAAGAGCCATCTGAAGCCACCTCTCTGCCTGTTCTCCCAAG  
AGGCCAGGGTGGCCAGGGGTGGTGAGGGCAGTTCTGCACCCAGCCAAACACATAACAATAAAAACCAAACCTCTGT  
GTCAGCATCTTTGCCCTTCTGGTTTTAAACGCCTCTTCAAAAAGCAATCTGGAAGAAAGCCCTGTGCTTTGGGGG  
AGTAAGAATGTGTGTGCAGAATTCTAGGCAGCACCTTAGGGAGGGACTGGGATGAGAGAAAGTGGGACCTGGTGG  
GCTCAACCACACACCTGTCTGTGCAGATGCTTTGCCAGGCTTCTCACCACGGTGTACCGGGATATTAAACCT  
CTTTCCCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 714**

MVACRAIGILSRFSAFRILRSRGYICRNFTGSSALLTRTHINYGVKGDVAVVRINSPNSKVNTLSKELHSEFSEV  
MNEIWASDQIRSAVLISSEKPGCFIAGADINMLAACKTLQEVTLQSQEAQRIVEKLEKSTKPIVAAINGSCLGGL  
EVAISCQYRIATKDRKTVLGTPEVLLGALPGAGGTQRLPKMVGVPAAALDMMLTGRSIRADRAKKMGLVDQLVEPL  
GPGLKPPEERTIEYLEEVAITFAKGLADKKISPKRDKGLVEKLTAYAMTIPFVRQQVYKKVEEKVRKQTKGLYPA  
PLKIIDVVKTGIEQGS DAGYLCESQKFGE LVMTKESKALMGLYHGQVLCCKNKFGAPQKDVKHLAILGAGLMGAG  
IAQVSVDKGLKTILKDATLTALDRGQQQVFKGLNDKVKKKALTSFERDSIFSNLTGQLDYQGF EKADMVIEAVFE  
DLSLKHRVLKEVEAVIPDHCIFASNTSALP ISEIAAVSKRPEKVIGMHYFSPVDKMQLEIITTEKTSKDTASA  
VAVGLKQGVIIIVKDGPGFYTTTRCLAPMMSEVIRILQEGVDPKKLDSLTTSGFPVGAATLVDEVGVDVAKHVA  
EDLGKVFGERFGGPNPELLTQMVSKGFLGRKSGKGFYIYQEGVKRKDLNSDMDSILASLKLPPKSEVSSDEDIQF  
RLVTRFVNEAVMCLQEGILATPAEGDIGAVFGLGFPFCLGGPFREFVDLYGAQKIVDRLKKYEAAAYGKQFTPCQLL  
ADHANSPNKKFYQ

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**FIGURE 715**

TTCTGTTTTTCTCTCTCATTCTCCAGTGGCGGCGGGGGAAGGCGGAGGCAGAGGCAGCAGCAGCCGCGCTGGC  
TGCAATGAATGATCCCCAGCTTGGGGGGAGGACTCCAGGTGAGCCTCTGCCCTCGGGAGGCCCCGGGACCCCCGG  
CCGCCCACGACCGGCAGCCCACGCTATGGATCCCTAGAGGAAGGAGGAGAAGACAGCTCGCCGCCCACCCCCATC  
CCATTTTCTCTTCTTTTATCTCATTGTTGCCGAAGCTGTTTACGGCAGCGCTCCCTCTGCTCCAGGACTCCCTG  
GGGGGAATGCCAAGACCATCATGGTAGCCACACTGGGGCCAGCTTCTCACAGCTACGATGAGAGCCTCTCCACC  
TTGCGCTTTGCCAACCGAGCCAAGAACATCAAGAACAAGCCCCAGGTGAACGAGGACCCCAAGGACACACTGCTG  
CGGGAATTCCAAGAGGAGATTGCCCGCCTGAAGGCCAGCTGGAGAAGAGGGGGATGCTGGGGAAGCGGCCCCGG  
AGGAAGAGCAGCCGCAGGAAGAAGGCCGTGTCCGCCCCGCTGGGTACCCTGAGGGCCCAGTGATTGAGGCCTGG  
GTGGCAGAAGAGGAGGATGACAACAACAACAACCGCCCGCCCCAGCCCATCCTGGAGTCAGCCTTGAGAGAAG  
AACATGGAGAATTACCTGCAGGAACAGAAGGAGCGGCTGGAGGAGGAGAAGGCAGCCATCCAGGATGACCGCA

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**FIGURE 716A**

GCTGGAGGTGGCCTCCCCTCCGCCCCAGACAAGAAGAGGCCCTCAGCCCTCCCCCGGTCTCAGAGAGCCCTGAGA  
GGAGGCCCAGTCCAGAGCTCTTCCTCCGTTCCCAGTCCACTTCTCTAGGGCCAGTAGCAGACACCAGCCAGTATG  
CCGAGGAACCAGGGCTTCTCCGAGCCCGAATACTCGGCCGAGTACTCAGCCGAGTACTCCGTCAGCCTGCCCTCC  
GACCCTGACCGCGGGGTGGGCCGGACCCATGAAATCTCGGTCCGGAACTCGGGCTCCTGCCTGTGCCTGCCTCGC  
TTCATGCGGCTGACTTTCGTGCCGGAGTCCTTGGAGAACCTCTACCAGACCTACTTCAAAGGCAGCGCCACGAG  
ACCCTGCTGGTGCTGGTGGTCTTTGCAGCCCTCTTTGACTGCTACGTGGTGGTCACTGTGTGCTGTGGTCTTTCTCC  
AGCGACAAGCTGGCTTCCCTCGCCGTGGCTGGAATTGGACTGGTGTGGACATCATCTCTTCGTGCTCTGCAAA  
AAGGGGCTGCTCCCGGACCGGGTCACCCGCAGAGTGCTGCCCTACGTGCTGTGGCTGCTCATAACCGCCCAGATC  
TTCTCCTACCTGGGCCTGAACTTCGCGCGTGCCACGCGGCTAGTGACACGGTGGGCTGGCAGGTCTTCTTTGTG  
TTCTCCTTCTTCATCAGCTGCCCCCTCAGCCTCAGCCCCATCGTGATCATCTCCGTGGTCTCCTGTGTGGTGCAC  
ACGTTGGTCTCTGGGGGTACCGTGGCCAGCAGCAGCAGGAGGAGCTCAAGGGGATGCAGCTGCTGCGGGAGATC  
CTGGCCAACGTCTTCTCTACCTGTGCGCCATCGCTGTGGGCATCATGTCTACTACATGGCTGACCGCAAGCAC  
CGCAAGGCCCTTCTGGAGGCCCCGAGTCGCTGGAGGTGAAGATGAACCTGGAAGAGCAGAGCCAGCAGCAGGAG  
AACCTCATGCTTTCCATCCTGCCAAGCACGTGGCTGACGAGATGCTGAAAGACATGAAGAAAGACGAGAGCCAG  
AAGGACCAGCAGCAGTTCAACACCATGTACATGTACCGTCACGAGAACGTCAGCATCCTCTTTGCCGACATCGTG  
GGCTTTACCCAGCTGTCTTCTGCCTGCAGTGCCAGGAGCTTGTGAAGCTGCTCAACGAGCTCTTTGCCCGCTTT  
GACAAGCTGGCAGCTAAATACCACAGCTGCGGATTAAGATCTGGGCGACTGCTACTACTGCATCTGCGGCTTG  
CCCGACTACCGGGAGGACCACGCCGTCTGCTCCATCCTCATGGGGCTGGCCATGGTGGAGGCCATCTCGTATGTG  
CGGGAGAAGACCAAGACTGGGGTGGACATGCGTGTGGGGGTGCACACGGGCACCGTGTGGGGGGCGTCTGGGC  
CAGAAGCGCTGGCAGTACGACGTGTGGTGCAGTGTACTGTAGCCAACAAGATGGAGGCCGGCGGCATCCCT  
GGGCGCGTGCACATCTCCAGAGCACCATGGACTGCCTGAAAGGGGAGTTTGATGTGGAGCCAGGCGATGGGGGC  
AGCCGCTGTGATTACCTAGAAGAGAAGGTATTGAAACCTACCTCATCATTGCCCTCCAAGCCAGAGGTGAAGAAA  
ACAGCCACCCAGAATGGCCTCAATGGCTCGGCCCTGCCAATGGAGCACCAGCTTCTCAAAGTCCAGCTCCCCCT  
GCCCTCATTGAGACCAAGGAGCCCAACGGGAGTGCCACAGCAGTGGGTCCACGTCGGAGAAGCCCGAGGAGCAG  
GATGCCCAGGCCGACAACCCCTCATTCCCCAACCCACGCCGGAGGCTGCGCCTGCAGGACCTGGCTGACCGAGTG  
GTGGATGCCTCTGAAGATGAGCACGAGCTCAACCAGCTGCTCAACGAGGCCCTGCTTGAGCGAGAGTCCGCCCAA  
GTGTAAAGAAGAGAAACACCTTCTTGTCCATGCGTTTCATGGACCCCGAGATGGAAACCCGCTACTCGGTGG  
AGAAGGAGAAGCAGAGTGGGGCTGCCTTACGCTGCTCCTGCGTCGTCCTGCTCTGCACGGCCCTGGTTCGAGATAC  
TCATCGACCCCTGGCTAATGACAACTATGTGACCTTCATGGTGGGGGAGATTCTGCTCCTCATCCTGACCATCT  
GCTCCCTGGCTGCCATCTTTCCCCGGGCCTTTTCTAAGAAGCTTGTGGCCTTCTCAACTTGGATTGACCGGACCC  
GCTGGGCCAGGAACACCTGGGCCATGCTCGCCATCTTCATCCTGGTGTATGGCAAATGTCGTGGACATGCTCAGCT  
GTCTCCAGTACTACACGGGACCCAGCAATGCAACGGCAGGGATGGAAACGGAGGGCAGCTGCCTGGAGAACCCCA  
AGTATTACAACTATGTGGCCGTGCTGTCCCTCATCGCCACCATCATGCTGGTGCAGGTGAGCCACATGGTGAAGC  
TCACGCTCATGCTGCTCGTCGAGGCGCCGTGGCCACCATCAACCTCTATGCCTGGCGTCCCGTCTTTGATGAAT  
ACGACCACAAGCGTTTTTCGGGAGCACGACTTACCTATGGTGGCCTTAGAGCAGATGCAAGGATTCAACCCCTGGGC  
TCAATGGCACTGACAGGCTGCCCCTGGTGCCTTCCAAGTACTCTATGACGGTGATGGTGTTCCTCATGATGCTCA  
GCTTCTACTACTTCTCCCGCCACGTAGAAAACTGGCACGGACACTTTTCTTGTGGAAGATTGAGGTCCACGACC  
AGAAGGAACGTGTCTATGAGATGCGACGCTGGAACGAGGCCTTGGTCACCAACATGTTGCCTGAGCACGTGGCAC  
GCCATTTCTGGGGTCCAAGAAGAGAGATGAGGAGCTGTATAGCCAGACGTATGATGAGATTGGAGTCATGTTG  
CCTCCCTGCCAACTTTGTGACTTCTACACAGAGGAGAGCATCAACAATGGTGGTATTGAGTGTCTGCGTTTCC  
TCAATGAAATCATCTCAGATTTTGACTCTCTCCTGGACAATCCCAAGTTCCGGGTGATCACCAAGATCAAAACCA  
TTGGCAGCACGTATATGGCGGCTTCAGGAGTCAACCCCGATGTCAACACCAATGGCTTTGCCAGCTCCAACAAGG  
AAGACAAGTCCGAGAGAGAGCGCTGGCAGCACCTGGCTGACCTGGCCGACTTCGCGCTGGCCATGAAGGATACGC  
TCACCAACATCAACAACCAAGTCTTCAATAACTTCATGCTGCGCATAGGCATGAACAAAGGCGGGGTTCTGGCTG  
GGGTCATCGGAGCCCGGAAACCACACTACGACATCTGGGGCAATACAGTCAATGTAGCCAGCAGGATGGAGTCCA  
CGGGGTCATGGGCAACATTAGGTATGTCCAGTGGCACAGCTGGCACGTGCTCAGACTCGGCATGAGAAACAAAA  
CCGGAACAGTGCTTTCCACGTGCCCTGCCTCCACCCCTGGCCCTGAACAGTAAGTCCAGAGGCAGAGACGTGG  
GGCAAGTGAAAAGAATCTCTGCAATAGCTAGCCTCAGCACAGGAAGAAACACTTCCACCCATCCACAAAATCTG



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**FIGURE 716B**

GGCTGAAGTTCTAGATGCATATGGCCTACCTTTGGGTATGAACCTTCTAATACCTTGATCTGTCTCAGTGGCG  
TCTGGCAGAAAAGCTCCACGAAAGGGGCAAAGGGACAGAAGAGCAGGCAGTGGCAGTTTCCAGGTAAACAGTGCTG  
CCACCCAGGTGACCATGGCCATCCTAGGAGAGAAGTCTCTGGATGAGAGGAGGCCCCCAGCCAGTCACTCCAGGG  
TTCTCCTTCCCACCCGCTGCTCGCCACGGGTGGAAGGGCTTGGCCC

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**FIGURE 717**

GCCGCGGCACCAGGGCGCGCAGCCGGGCGGGCCGACCCACCGGCCATACGGTGGAGCCATCGAAGCCCCCACC  
CACAGGCTGACAGAGGCACCGTTACCAGAGGGCTCAACACCGGGATCTATGTTTAAAGTTTAACTCTCGCTCC  
AAAGACCACGATAATTCTTCCCCAAAGCCAGCAGCCCCCAGCCCCGCGCAGCCCCAGCCTGCCTCCCGGCGC  
CCAGATGCCCCGCCATGCCCTCCAGCGGGCCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGGACCGAAA  
GGACGGAGAGGAGCAGGAGGAGCCGCGTGGCAAGGAGGAGCGCCAAGAGCCCAGCACCACGGCACGGAAGGTGGG  
GCGGCTGGGAGGAAGCGCAAGCACCCCCCGGTGGAAAGCGGTGACACGCCAAAGGACCCTGCGGTGATCTCCAA  
GTCCCCATCCATGGCCCAGGACTCAGGCGCCTCAGAGCTATTACCCAATGGGGACTTGGAGAAGCGGAGTGAGCC  
CCAGCCAGAGGAGGGGAGCCCTGCTGGGGGGCAGAAAGGGCGGGGCCCCAGCAGAGGGAGAGGGTGCAGCTGAGAC  
CCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCCAAGGAGGGCCGAGGAGCCCCTGCAGAAGC  
GGGCAAAGAACAGAAGGAGACCAACATCGAATCCATGAAAATGGAGGGCTCCCGGGGCGGGCTGCGGGGTGGCTT  
GGGCTGGGAGTCCAGCCTCCGTACGCGGCCCATGCCGAGGCTCACCTTCCAGGCGGGGGACCCCTACTACATCAG  
CAAGCGCAAGCGGGACGAGTGGCTGGCAGCTGGAAAAGGGAGGCTGAGAAGAAAGCCAAGGTCAATTGCAGGAAT  
GAATGCTGTGGAAGAAAACCAGGGGCCCCGGGGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCCTGCTGTGCAGCA  
GCCCCACTGACCCCGCATCCCCACTGTGGCTACCACGCTGAGCCCGTGGGGTCCGATGCTGGGGACAAGAATGC  
CACCAAAGCAGGCGATGACGAGCCAGAGTACGAGGACGGCCGGGGCTTGGCATTGGGGAGCTGGTGTGGGGGAA  
ACTGCGGGGCTTCTCCTGGTGGCCAGGCCGCGATTGTGTCTTGGTGGATGACGGGCGGAGCCGAGCAGCTGAAGG  
CACCCGCTGGGTCAATGTGGTTCGGAGACGGCAAATTCTCAGTGGTGTGTGTTGAGAAGCTGATGCCGCTGAGCTC  
GTTTTGCAGTGCGTTCCACCAGGCCACGTACAACAAGCAGCCCATGTACCGCAAAGCCATCTACGAGGTCTTGCA  
GGTGGCCAGCAGCCGCGCGGGGAAGCTGTTCCCGGTGTGCCACGACAGCGATGAGAGTGACACTGCCAAGGCCGT  
GGAGGTGCAGAACAAGCCCATGATTGAATGGGCCCTGGGGGGCTTCCAGCCTTCTGGCCCTAAGGGCCTGGAGCC  
ACCAGAAGAAGAGAAGAATCCCTACAAAGAAGTGTACACGGACATGTGGGTGGAACCTGAGGCAGCTGCCTACGC  
ACCACCTCCACCAGCCAAAAAGCCCCGGAAGAGCACAGCGGAGAAGCCCAAGGTCAAGGAGATTATTGATGAGCG  
CACAAGAGAGCGGCTGGTGTACGAGGTGCGGCAGAAAGTGCCGAACATTGAGGACATCTGCATCTCCTGTGGGAG  
CCTCAATGTTACCCTGGAACACCCCCTCTTCTGTTGGAGGAATGTGCCAAAACCTGCAAGAACTGCTTTCTGGAGTG  
TGCGTACCAGTACGACGACGACGGCTACCAGTCCCTACTGCACCATCTGCTGTGGGGGCCGTGAGGTGCTCATGTG  
CGGAAACAACAACCTGCTGCAGGTGCTTTTTCGCTGGAGTGTGTGGACCTCTTGGTGGGGCCGGGGGCTGCCAGGC  
AGCCATTAAGGAAGACCCCTGGAAGTGTACATGTGCGGGCACAAGGGTACCTACGGGCTGCTGCGGCGGCGAGA  
GGACTGGCCCTCCCGCTCCAGATGTTCTTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAGGTTTACCC  
ACCTGTCCCAGCTGAGAAGAGGAAGCCCATCCGGGTGCTGTCTCTCTTTGATGGAATCGCTACAGGGCTCCTGGT  
GCTGAAGGACTTGGGCATTAGGTGGACCGCTACATTGCCTCGGAGGTGTGTGAGGACTCCATCACGGTGGGCAT  
GGTGCGGCACCAGGGGAAGATCATGTACGTGCGGGACGTCCGAGCGTCACACAGAAGCATATCCAGGAGTGGGG  
CCCATTCGATCTGGTGATTGGGGGAGTCCCTGCAATGACCTCTCCATCGTCAACCCTGCTCGCAAGGGCCTCTA  
CGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCCTCCTGCATGATGCGCGGCCCAAGGAGGGAGATGATCG  
CCCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATGGGCGTTAGTGACAAGAGGGACATCTCGCGATTTCTCGA  
GTCCAACCCTGTGATGATTGATGCCAAAGAAGTGTGAGCTGCACACAGGGCCCGCTACTTCTGGGGTAACCTTCC  
CGGTATGAACAGGCCGTTGGCATCCACTGTGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCATGGCAGGAT  
AGCCAAGTTCAGCAAAGTGAGGACCATTACTACGAGGTCAAACCTCATAAAGCAGGGCAAAGACCAGCATTTTCC  
TGTCTTCATGAATGAGAAAGAGGACATCTTATGGTGCAGTGAATGGAAAGGGTATTTGGTTTCCCAGTCCACTA  
TACTGACGTCTCCAACATGAGCCGCTTGGCGAGGCAGAGACTGCTGGGCGCGTCAATGGAGCGTGCCAGTCATCCG  
CCACCTCTTCGCTCCGCTGAAGGAGTATTTTTCGCTGTGTGTAAGGGACATGGGGGCAAACCTGAGGTAGCGACACA  
AAGTT

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**FIGURE 718**

MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPAVISKS  
PSMAQDSGASELLPNGDLEKRSEFQPEEGSPAGGQKGGAPAEGEAAETLPEASRAVENGCTPKEGRGAPAEAG  
KEQKETNIESMKMEGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRKRDEWLARWKREAEKKAKVIAGMN  
AVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDKNATKAGDDEFEYEDGRGFGIGELVWGKL  
RGFSWWPGRIVSWWMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQPMYRKAIYEV LQV  
ASSRAGKLFVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEVYTDMMWVEPEAAAYAP  
PPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVQRKCRNIEDICISCGSLNVTLEHPLFVGGMCQNCKNCFLECA  
YQYDDDGYSYCTICCGGREVL MCGNNCCRCFCVECVDLLVGPAAQAAIKEDPWNCYMC GHKGT YGLLRRED  
WPSRLQMFFANNHDQEFDPKVPFPVPAEKRPPIRVLSLFDGIATGLLVLKDLGIQVDRYIASEVCEDSITVGMV  
RHQGKIMYVGDVRSVTQKHIEWGFDFLVIGGSPCNDLSIVNPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRP  
FFWLFENVVAMGVSDKRDISRFLSNPVMIDAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIA  
KFSKVRTITTRSNSIKQGDQHFVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLGRSWSVPVIRH  
LFAPLKEYFACV

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**FIGURE 719**

CTGACCGCCGGGGGGTGTCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGCAAAGGGGACCATGCGGCGCCTGAC  
TCGTGCGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAA  
GTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGGTTTGGTCCTTGTTTTTCAAGGTGGCTGGGATGAG  
CCCTTGGGCGCCTCAGGTGCCGTGTATCACCCACTCCTCCCTACCAAAGAGGGCATCTTCCTACAGGAGGACACCT  
TGCTGTATGTCAATTTCCCATGTCTCTTGCAAGAAGCTCAGTTCCATTGTCAGACTCAGGTCTTTCTTCAAGTCAG  
ATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCATCACCTTCCACAACGAGGCCCGCTC  
CACGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGA  
TGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCAAAATTGCCCAAGGTGAAATGCTTGCGCAATAATGA  
ACGGCAAGGTCTGGTCCGGTCCCGGATTCTGGGGCGCTGACATCGCCCAGGGCACCCTCTGACTTTCTTCGACAG  
CCACTGTGAGGTGAACAGGGACTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTG  
CCCTGTGATCGATATCATTAACTGGACACCTTACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGGTTTGA  
CTGGAGCCTCCACTTCCAGTGGGAGCAGCTCTCCCCAGAGCAGAAGGCTCGGCGCCTGGACCCACGAGCCCAT  
CAGGACTCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGTTGATTACCTGGGGAAATATGATAT  
GGACATGGACATCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGAT  
CGTCCCCTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAATGCCAACAC  
GTATATAAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCCGGCC  
ATTGCCCCTGAGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTT  
CAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCTCCATCCAGAAGGGCAATATCCG  
ACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCGTGTC  
CAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACACCCAGCAGATCCTCCAGGAGGAGCT  
GTGCCTGTCTAGTCATCACCTTGTTCCTGGCGCCCCAGTGGTTCTTGTCTTTGCAAGAATGGAGATGACCGACA  
GCAATGGACCAAACTGGTTCCACATCGAGCACATAGCATCCACCTCTGCCTCGATACAGATATGTTTCGGTGA  
TGGCACCGAGAACGGCAAGGAAATCGTCGTCAACCCATGTGAGTCTCACTCATGAGCCAGCACTGGGACATGGT  
GAGCTCTTGAGGACCCCTGCCAGAAGCAGCAAGGGCCATGGGGTGGTGCTTCCCTGGACCAGAACAGACTGGAAA  
CTGGGCAGCAAGCAGCCTGCAACCACCTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCAGGACAGGA  
GCAACTGTCTCAGGGAGGACAGAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCATGTTCTCAA  
GGCCGTTAAGTTCCAGTCTTGCCAGTCATTCCCTGATTGGTATCTGGAGACAGAAACCTAATGGGAAGTGTTTA  
TTGTTCCTTTTCTACAAAGGAAGCAGTCTCTGGAGGCCAGAAAGAAAAGCCTTCTTTTTTCACTAGGCCAGGACT  
ACATTGAGAGATGAAGAATGGAGGTTGTTTCCAAAAGAAATAAAGAGAACTTAGAAGTTGTCTCTGG

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**FIGURE 720**

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKVWSLFFKVAGMSPWAPQVPVSPTPPYQRGHLPTGGHLAVCHFPCLLQEAQFHLQTQVFLQVRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRTPTHLIREIILVDDFSNDPDDCKQLIKLPKVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQPLLHRVKEDYTRVVCVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPIRTPIIAGGLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCGBSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAEVWMDEYKQYYAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESQRQNNQETPNLKLSPCAKVKGEDAKSQVWAFTTYTQQILQEELCLSVITLFPGAPVVLVLCKNGDDRQQWTKTGSHIEHIAASHLCCLDTDMFGDGTENGKEIVVNPCESSLMSQHWDMMVSS

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**FIGURE 721**

GGTGTTCACTCAACTTGGATCTGTGCTGAAAAATTGTGACATTTTCAGTACATCTGGTAGAGGGTACAGCTTTTAT  
CTTGACATGAATTTTTTGTGTTCTTCCTGTGCATAAATTTTCAGAAAACACCACAGGGATGGCGAGAAGTATTT  
GTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTGTTTGGCACCTTCTGCCACCCACAGCAGAAGCCTTC  
ATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGTCCTGATGCTGGTGTTATCATCGAGGAACCTTTCTCAA  
CGCATTGCATTAACTGGAGGTGCTGCACTGGTTGCTGATTATGGTCATGATGGAACAAAGACAGATACCTTCAGA  
GGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGGAACAGCAGATCTAACAGCTGATGTGGACTTC  
AGTTATTTGCGAAGAATGGCACAGGGAAAAGTAGCCTCTCTGGGCCCAATAAAACAACACACATTTTTAAAAAAT  
ATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAGATAAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAA  
GGATATGATATGTTAATGAATCCAAAGAAGATGGGAGAGAGATTTAACTTTTTTGCCCTGCTACCTCATCAGAGA  
CTTCAAGGTGGAAGATATCAGAGGAATGCACGTCAGTCAAAACCCCTTTGCATCCGTTGTAGCTGGGTTTAGTGAA  
CTTGCTTGGCAGTGATATTTTCAGCTTGGACATTTTACCCTTCAGTCGGCCCAAGAAATCAAAATAAAGGAAACAC  
ATTTTCATATACTGCAGGTAAACAAAAGTCAAAGTATTTTATCTTTTTCACAGCAAGAACAGTCCATGTTGTATATAA  
TACAACCAACATTATAGAACTTTTAGGGTTGTGACTGGCTTTGGTGCAAATGTGTGCTCAAGCTAATAAGTTATT  
GTGAAACTGAGTTTTCCTTTAACTTACAAAGCTAGTTGCCATATTTCTATTTTATTTTAAAAAGTAAACATGCGGC  
TGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACCTTTGGGAGGCTGAGGTGGGCATATCACCTGAGGTCAGCAGT  
TAAAGACCAGCCTGACCAAAATGGAGAAACCCCATCTCTACTAAAAATACAAAACCTAGCCGGGTATGGTGGTACA  
TGCCTGTAATCCCAGC

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**FIGURE 722**

MAQGKVASLGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLQGYDMLMNPCKMGERFNFFALLPHQRLQGR  
YQRNARQSKPFASVVAGFSELAWQ

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**FIGURE 723**

CTTCTCTCGCCAGGCATCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCGT  
GATGCCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACCTACTTCCTTAAGATCATCCAACCTATTGGATGATTATCC  
AAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAA  
GGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCT  
GGAGAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTCACCAAGGAGGACCTCACTGAGATCAGGGA  
CATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGC  
CCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCCTAAAATCTCCAGGGG  
CACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCT  
GAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTCCTGGC  
CTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAATGTCAAGGCCTTCTTGGCTGATCCATCTGCCTT  
TGTGGCTGCTGCCCCGTGTGGCTGCTGACACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGC  
CAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTAATACCAAAAAGCAACCAACT  
TAGCCAGCTTTATTTGCAAAACAAGGAAATAAAGGCTTACTTCTTT



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**FIGURE 724**

MPREDRATWKSNYFLKIIQLDDYPKCFIVGADNVGSKQMQQIRMSLRGKVVLGMKNTMMRKAIRGHLENNPAL  
EKLLPHIWGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTGISRG  
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSGFLVIQQVFDNGSIYNPEVLDKTEETLHSRFLEGVRNVASV  
CLQGTGYPTVASVPHSIINGYKRVLALSVETDYTEFLAENVKAFLADPSAFVAAAPVAADTTAAPAAAAAPAKVEA  
KEESESEDEDMGFGLFD

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**FIGURE 725**

GTCTTTAAACCCCTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCA  
ACTACTTCCTTAAGATCATCCAACCTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCT  
CCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGC  
GCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAACTGCTGCCTCATATCTGGGGGAATGTGG  
GCTTTGTGTTACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCC  
GTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCT  
TTTTCCAGGCTTTAGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTG  
AACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAAC  
CCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGTC  
TGTCTGCAGACTGGCTACCCAACCTGTTGCATCAGTACCC

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**FIGURE 726**

CTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAAC TACTTCCTT  
AAGATCATCCAAC TATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATG  
CAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATC  
CGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTC  
ACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTGGTGCC  
ATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCT  
TTAGGTATCACCCTAAAATCTCCAGGGGCACCATTGAAATCCTGACAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAAC TGTTCATCAGTACCCCATTCATCATCAACGGGTACAAACGAGTCCTGGC

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**FIGURE 727**

CCTCTAGCTTAGCGAGCGCTGGAGTTTGAAGAGCGGGCAGTGGCTGCACACGCCAAACTTTCCCTATGGCTTCGG  
TGACCAGGGCCGTGTTTGGAGAGCTGCCCTCGGGAGGAGGGACAGTGGAGAAGTTCCAGCTGCAGTCAGACCTCT  
TGAGAGTGGACATCATCTCCTGGGGCTGCACGATCACAGCCCTAGAGGTCAAAGACAGGCAGGGGAGAGCCTCGG  
ACGTGGTGCTTGGCTTCGCCGAGTTGGAAGGATACCTCCAAAAGCAGCCATACTTTGGAGCAGTTATTGGGAGGG  
TGGCCAACCGAATCGCCAAAGGAACCTTCAAGGTGGATGGGAAGGAGTATCACCTGGCCATTAACAAGGAACCCA  
ACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCTCTGGACCCCTCGGGTGCTGTCAAATGGCGTCCAGT  
TCTCGCGCATCAGTCCAGATGGTGAAGAAGGCTACCCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATG  
GCGGAGAGCTCATAGTCAACTACAGAGCACAAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACT  
TCAACCTGGCAGGCCAGGCTTCCCCAAATATAAATGACCATGAAGTCACCATAGAAGCGGATACTTATTTGCCTG  
TGGATGAAACCCGTGATTCTACAGGAGAAGTTGCCCCAGTGAAGGCACTGCATTGACCTGAGAAAGCCAGTGG  
AGCTTGGAAAACACCTGCAGGACTTCCATCTCAATGGTTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAA  
AGCATTTTTGTGCAAGGGTGCATCATGCTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCCGGGTCC  
AGTTTTACACGGGCAACTTCTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTT  
TCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGCTGAGGCCTGGTG  
AGGAGTATGACCACACCACCTGGTTCAAGTTTTCTGTGGCTTAAGGAAGTGTGAAGATATGATCCAGTCCAGGGC  
TAGGCTCAGCCACCTGTCTCCTGTCCAGAAAAAAGGTGAAGATTAAGAAGCTTTCAGAATGATTCTATGGATTAA  
AATCATACAAATGGTGGCTGTTCTGAGAATCAGTCTGGGTATTGATTTCTTTTCCAGTGAAGTCCAGGCCA  
TGTCTAATGACCAGCTCGATTCCCTGTGCAGTTCAGAGAGCAAGTGAACCCAACCAACAATGTCGTCATCTAAGC  
CCTGACCCTAGCCAGGGACTCCCATGCTGCTGTTGGCTCCATCTCTCCACACTGCCTCTTTCTTTTCAACTTTTT  
GCCCTTCTTTCTTTTAAAGCTATTCTCACATTGCTTTTATTTCTCTCCTCCTTCACCTCCAACCACTGTCAGCAGC  
ACTCTGGAGTTTTCAAATGTCACATTAGCCTCACCTGCATGCTAGGAGATGGACCTGTCTCTATACAGCAGTAG  
ATGATTGATAAGTGAGGAACTGAGGCTTACAGAGGTTGAAGACCAACAAGCTAATAAATAAAAAGTTGAGGCCG  
GGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGGCGGATCACGAGGTGAGGAGATCGA  
GACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACATAAAAAATTAGCTGGGTGTGGTAGCACGCACCCGTAG  
TTCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCA  
TGCCACTGCACTGGGCAACAGAGCAAACTCGATCTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 728**

MASVTRAVFGELPSGGGTVEKFQLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFAELEGYLQKQPYFGAV  
IGRVANRIAKGTFKVDGKEYHLAINKEPNSLHGGVRGFDKVLWTPRVLSNGVQFSRISPDGEEGYPGELKVWVTY  
TLDGGELIVNYRAQASQATPVNLTNHSYFNLAGQASPNINDHEVTIEADTYLPVDETLIPTGEVAPVQGTAFDLR  
KPVELGKHLQDFHLNGFDHNFCLKGSKEKHFCARVHHAASGRVLEVYTTQPGVQFYTGNFLDGTLKGKNGAVYPK  
HSGFCLETQNWPD AVNQPRFPPVLLRPGEEDHTTWFKFSVA

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**FIGURE 729**

GACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAGTT  
AAGTCCAGATGTGGGAACCCCTTCTCTTGAAGAAGTTCCTAATTGTGTCTCAGACCGGTGTAAACAAACCAGCCA  
GCCGCCACCTTGCTAAACCTATAAGCTTTTTAAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAGCC  
CTCAGCCCATAGGTGTTTTTGTTTTTTAACAGAATTATATATGTCTGGGGGTGAAAAAACCCTTGCATTCCAAA  
GGTCCATACTGGTTACTTGGTTTCATTGCCACCCTTAGTGGATGTTTCAAGTTTAGAACCATTTTGTCTGCTCCCT  
CTGGAAGCCTTGCGCAGAGCTTACTTTGTAATTGTTGGAGAATAACTGCTGAATTTTCTAGCTGTTTTGAGTTGAT  
TCGCACCACTGCACCACAACCTCAATATGAAAACCTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGAAA  
ATTTTGTTTACTACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATTCTTTTATTATGTTAAATTATGA  
TTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTACAGTAATATATGCCTTTTGTAACTTCACTTG  
GTTATTTTATTGTAAATGAGTACAAAATCTTAATTTAAGAGATTGTATGTAATATTTATTTTCAATTAATTTCTTT  
CCTTGTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAGTAGTTTG  
AGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACCTTCAAAGAAAAAATGACCACA  
TACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTTCAACTTTATAAACTAGCAAAAAGTGTGCTT  
ATTCCACCAGTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGAGTCTCA  
CAGTGCCCTTTGGAAGGGCCCGAAGTTGCCTTAAATCTTCCTCAACCAATAAGTATTTTATTAGTGCTTGAGAGA  
ATCTGAATGTAGGATGGGTTCAACTGCACAAAAGGAAAAGATTTTTTACCCTTTTTTATATAGATATAAAGTGA  
AGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAATTACAGAAAATTCCTTCCTGGACA  
GCAGATGAATGAGCGGTAGCTTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTT  
GGACAGAAGTAGGTTTTTGAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACT  
ACAAATTGTGACTGTAAACATTGTACTGTAAATGTTTTGTAGTT

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**FIGURE 730**

MWEPFSWKKFLIVSQTGVNKPASRHLAKPISFLKSNIFCQEYALIVSPQPIGVFCFLTELYMSGGEKTLAFQRSI  
LVTWFHCHHLVDVQFRTILSAPSGSLAQSLCNCWRITAEFLAVLS

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**FIGURE 731**

CCTGATTCTAGGCTGGTCACTACTCCGAGCCTGTGACGTTTGC GG CAGCCAGGCCGTCGACGATGCC CAGTGAAA  
CTCTCTGGGAAATTGCAAAAGCTGAAGTGAAAAAAGGGGAATTAATGGAAGTGAAGGTGATGGAGCTGAAATTG  
CAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGGAAAGACTACTATTATTCTAAGGTGTCTTGACAGAG  
ATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGAAGAGCAAAAGGGCACAACACACCAAAAG  
ATATCGCTCACTTTTGGGAACTCGGTGGAGGAACCTCTTTATTGGACTTAATCAGCATACCCATCACAGGTGACA  
CCTTACGGACGTTTTCTCTTGTTCTCGTTCTGGATCTTTCAAAACCTAATGATCTCTGGCCACCATGGAAAATC  
TCTTGCAAGCCACAAAAAGCCATGTAGACAAAGTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTG  
AAATGAGACAGAAGATCTGGAATAATATGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCGGGTAC  
CTCTGGTCATAATTGGAAGTAAATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAATATGCAAGA  
CACTTCGATTTGTTGCACATTATTATGGAGCATCATTAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAA  
TACGTGGAGTTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAACCGC  
TGTTTATCACAGCAGGATTGGATTCTTTCGGTCAAATAGGATCTCCTCCTGTTCTCTGAAAATGACATTGGAAAGC  
TTCATGCCCACCTCACCTATGGAGTTGTGGAAAAAAGTGTATGAAAAGCTCTTTCCACCAAAGAGTATTAACACGC  
TGAAAGATATCAAGGACCCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAATTCAGAAGG  
ATCTGGAACCTGGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAACAAATCGAGCTTGATTCTTGAACCTATT  
TCAATTATTGTATATTTATTTCTTCTTTTCCAAATACAAATAAGATTATACTGTGAATTAATTATTGTGGCAATA  
TGTGAAGAAAGTTAAACTGTATAATTTGTTAAAGGACAAGCTGGATTTCTTGGACTAGTGCATCTCCCTGTATAT  
CTTGAAGCTTTTTAAAGGAAAAATTATTGTAGAACCACGTGTAATTTTTTTTTAAATAAAAGAATCTTCTACTA  
CCTACCTCT



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**FIGURE 732**

MPSETLWEIAKAEVEKRGINGSEGDGAEIAEKVFFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGRRAKGH  
NTPKDIAHFWELGGGTSLLDLISIPITGDTLRTFSLVLVLDLSKPNDLWPTMENLLQATKSHVDKVIMKLGKTNA  
KAVSEMRQKIWNNMPKDHPDHELIDPFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFVAHYYGASIMFTSKSEA  
LLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPFPVENDIGKLHAHSPMELWKKVYEKLFPPK  
SINTLKDIKDPARDPQYAENEVDEMRIQKDLELEQYKRSSSKSWKQIELDS

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**FIGURE 733A**

ACATGCTCCTCCTGTCTTCTGGCGGAGCGTGCTTCCCGCTGCGGGGACGTTGAGCAATGGCAGCCCTGCTGAG  
ATCCGCGCGTTGGTTGCTGCGTGCCGGGGCGGCCCCGCGCTCCCGCTCTCCCTGCGCCTCCTCCCTGGCGGGCC  
GGGCGGCTGCATGCCGCTCCTATCTGCCCCGCGCTCGCGCCGGGCGCGTGGCCGGAGGACTACTGAGCCCAGC  
CAGGCTGTATGCCATTGCTGCCAAAGAAAAAGATATTCAAGAGGAGTCCACTTTTTCTTCTAGGAAGATTTCCAA  
TCAGTTTGATTGGGCTCTAATGAGACTAGATCTTTCTGTTTGAAGAACTGGCCGCATTCCAAAGAAGCTTCTACA  
AAAAGTTTTTAATGATACCTGCCGCTCAGGTGGCCTAGGTGGTAGTCATGCCTTGCTTCTACTACGTAGTTGTGG  
TTCTCTCTTGCCCTGAACTAAAGCTTGAAGAGAGAACAGAATTTGCTCATAGGATATGGGACACACTTCAGAAATT  
AGGTGCTGTGTATGATGTGAGTCACTATAATGCTTTACTTAAAGTCTATCTTCAAATGAATATAAATTCTCACC  
AACTGATTTCCCTGGCAAAAATGGAGGAAGCAAAACATTCAACCAAATCGAGTGACATACCAGAGATTGATTGCTTC  
TTATTGTAATGTAGGAGATATTGAAGGTGCCAGCAAGATTCTTGATTATGAAAACATAAGGATCTCCAGTTAC  
AGAGGCAGTATTCACTGCCCCTTGTGACAGGGCATGCCAGAGCTGGTGATATGGAGAATGCAGAAAACATTCTCAC  
AGTGATGAGAGATGCCGAATTGAGCCTGGTCCAGACACATACCTCGCATTATTGAATGCATATGCTGAGAAGGG  
CGACATTGACCATGTTAAGCAGACTCTGGAGAAGGTGGAGAAGTCCGAGCTTCACCTTATGGACCGTGATTTACT  
GCAAATTATTTTTAGCTTCAGTAAAGCTGGGTATCCTCAGTATGTCTCAGAAATTTTGAAAAAGTTACATGTGA  
AAGAAGATATATTCCAGATGCAATGAACCTCATTTTACTTTTAGTCACTGAAAAATTGGAAGATGTAGCGTTGCA  
AATTTTACTAGCATGCCCCGTATCAAAGGAAGATGGCCCAAGTGTCTTTGGCAGTTTCTTTTACAACACTGTGT  
GACTATGAATACGCCTGTGGAGAAGCTAACAGACTACTGTAAGAAGTTAAAGGAAGTCCAGATGCACTCCTTTCC  
TCTGCAGTTACCCCTCATTGTGCTTTACTCGCCAATAAACTGATTTGGCAAAAGCCTTAATGAAGGCTGTGAA  
GGAGGAAGGTTTTCTATCAGACCTCACTATTTCTGGCCATTGCTAGTTGGACGTCGGAAGGAAAAAATGTTCA  
AGGTATAATTGAAATCCTCAAAGGAATGCAAGAATTGGGAGTACATCCTGATCAGGAAACATATACAGATTATGT  
GATTCATGCTTTGATAGTGTAAGTCAAGTCAAGCAGAGCCATTTTGCAGGAAATGGATGTCTGTCTGATAGTGATAT  
GTTTTCTCAAGCTGGATTGAGAAGTGAAGCAGCAAATGGGAACCTTAGACTTTGTATTATCATTTTTGAAATCAAA  
TACATTGCCCATCTCGCTGCAGTCTATAAGAAGTAGCCTACTGCTAGGCTTCAGGAGGTCTATGAATATAAATCT  
TTGGAGCGAGATAACAGAATTGTTGTACAAGGATGGACGTTATTGCCAGGAGCCTCGAGGACCGACGGAAGCTGT  
TGGCTATTTTCTTTATAACTTGATTGACAGCATGAGTGACTCAGAGGTACAGGCCAAGGAGGAGCATTGAGACA  
ATACTTCCATCAGCTGGAGAAGATGAATGTAAAAATTCCTGAAAATATCTACAGAGGCATTTCGTAATCTCCTGGA  
AAGCTACCATGTTCTGAATTGATTAAGGATGCTCACTTGTGGTTGAGAGTAAGAATTTAGACTTTCAAAAAAC  
TGTGCAACTTACATCATCTGAATTGGAGTCCACACTTGAAACACTAAAAGCTGAAAATCAACCTATAAGAGATGT  
CCTAAAGCAACTCATATTAGTGCTTTGTTTCAGAAGAGAATATGCAAAAAGCCCTTGAATTGAAAGCAAAATATGA  
ATCCGACATGGTTACTGGTGGCTATGCAGCTTTAATAAATTTATGCTGTGACATGATAAAGTAGAAGATGCCTT  
GAACTTGAAAGAAGAATTTGACCGCTTAGATTCTGCTGTCTTGCCTTGACACCGGCAAGTATGTAGGCCTTGTAAG  
AGTATTGGCAAAGCATGGCAAGCTCCAAGATGCTATTAACATTCTGAAGGAGATGAAAGAGAAGGATGTTCTTAT  
CAAAGATACAACAGCCTTGTCCTTTTCCACATGCTAAATGGCGCAGCTTTAAGAGGTGAAATTGAAACAGTAAA  
ACAGTTGCATGAAGCCATCGTGACTCTAGGGTTAGCAGAACCATCCACCAACATAAGTTTCCCATTTGGTCACCTGT  
ACACTTGGAAGGGCGACCTATCTACTGCTCTTGAGGTGCGCATTGACTGCTATGAAAAGTATAAAGTATTACC  
AAGGATTCATGATGTCTTGTGTAAACTGGTAGAGAAAGCGAGACTGATCTAATTCAGAAAGCAATGGACTTTGT  
GAGCCAAGAACAAGGTGAAATGGTGATGCTCTATGATCTCTTCTTTGCCTTCCTACAAACAGGAAATTACAAAGA  
GGCCAAGAAGATCATTGAGACTCCAGGGATTAGAGCTCGATCTGCAAGGCTTCAGTGGTTTTGTGACAGATGTGT  
TGCAAATAATCAGGTTGAAACTCTGGAATAATTAGTGGAGCTGACACAGAAGCTATTTGAATGTGATAGAGACCA  
GATGTACTACAATCTGCTAAAACGTGATAAAATAACGGTGACTGGCAAAGAGCTGATGCAGTCTGGAATAAAAT  
CCAAGAAGAAAATGTTATTCCTCGTGAAAAGACATTAAGATTATTAGCAGAAATCCTTAGAGAGGGTAACCAGGA  
AGTTCCGTTTGACGTACCTGAGTTGTGGTATGAAGATGAAAACATTCCCTGAATTCCTCGTCAGCCTCAACCAC  
AGAACCTGATTTCCAGAAAGATATATTGATTGCCTGCCGATTGAACCAAAAAAAGGGGCATATGATATTTTCT  
GAATGCAAAAGAGCAAAACATTGTGTTAATGCTGAAACCTACAGCAATCTCATTAAATTACTGATGTCAGAAGA  
TTATTTTACACAAGCAATGGAAGTGAAGCATTCGCGGAGACCCACATCAAGGGCTTCACACTGAACGATGCTGC  
CAACAGCCGCTCATCATAACGCAAGTTAGGCGGGATTATTTGAAAGAGGCTGTGACAACACTGAAAACAGTATT  
GGATCAGCAGCAGACCCCTTCTAGGTTAGCAGTGACCCGTGTCATCCAGGCATTGGCCATGAAGGGTGATGTTGA  
AAACATAGAAGTAGTTTCAAGATGTTAAATGGACTCGAAGACTCCATTGGACTTTCAAAAATGGTTTTTCATCAA

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**FIGURE 733B**

TAACATTGCTTTGGCTCAAATAAAGAATAATAACATAGATGCCGCAATAGAAAACATTGAAAATATGCTTACTTC  
AGAGAATAAAGTCATTGAACCCCAATACTTCGGCTTGGCATACTTATTCAGAAAAGTAATAGAGGAGCAGTTGGA  
ACCAGCAGTTGAAAAGAGTAACATCATGGCGGAGAGATTGGCCAATCAGTTTGCAATTTATAAACCTGTCAGTGA  
TTTTTTCCTTCAACTTGTGGATGCAGGCAAGGTGGATGATGCCAGAGCTCTCCTACAGAGATGTGGTGCAATTGC  
TGAACAAACCCCGATTTTGTGTTGTTTCCTCCTTAGGAATTCTAGGAAACAAGGAAAGGCATCAACTGTGAAATC  
TGTGTTAGAATTGATTCCTGAATTAAATGAAAAGGAAGAAGCATAACAATCCCTCATGAAAAGCTATGTCTCAGA  
GAAAGATGTCACATCTGCTAAAGCACTGTATGAACATTTGACTGCAAAGAATACAAAATTGGATGATCTGTTTCT  
AAAGCGTTACGCATCTTTGCTGAAGTATGCTGGAGAGCCTGTCCCTTTCATTGAACCCCTGAAAGCTTTGAATT  
TTATGCACAGCAGCTAAGAAAATTGAGGGAAAACCTCTTCTTGAAATAACCAGGCGATACTTTGTTTTGTATATAT  
TTGTGATTCTGTGTCTACATGTTATTTTGAAGTATATCTGAGGGAAAAATAAATGAAAATTTCTTTATGTACTT  
ATGTATGTGTGATGCATGTTCAAAGTCTTATTGACCATAACTCTGTGCACTTGGTTATTGGACATTTTGGAGTT  
TTTTTCTCTGGGAAAAATCGATAGTGTCTTCTTCAATGCTGCTGCTGTGTGAAGCCATACTTTTTCAGGATTCTT  
CCCCTAATTGGCTCTTTGGTTTCCCTGCTCTGTTTCATTTATTTTATTAAATGTTATTCCTTTATTTAAGATTC  
ACTTATTAGTCTGCTGTTTCTCTGAAAAATTTTAGAGCTAGGTATAGTGACCGTGAACCTTTCTAACGCATAATAT  
TCTGTGATACAGCCATTCCGTACATGTGTGAAGTCCTGCATAACTTTCGAACTTTGTTAAATGTTGGCACTAGGA  
GTCATCAGATCTAGGCTTCATCATTTTCCAGTGAGAAGCAGAGACCCAAAGGGCCTGTTACTTGTGCTTGGTCAG  
GGGACTGTCTGTCATGCCTGGAGGCTCTTCGGGCACACTTCCCCATCTTTCCCTTCTGCCACTGTGGCTTCAAGCA  
CCTCTGTTTCATAGAGCGTCTCTGAAATTGAGTCTCGGTCAIGACTTATCCCGAAGTAGAGCAATGTGTTTCTCT  
CATTGTAGTTTTCAGGACTTTGTGAGTACAAGCTCTGCCCTAGGCTTGTACTTTATACTCATATCCTGAAAAGAT  
GTGATTTTCATCTATGAAGGGGTAAAATATTGGTTTTGTATTTAATTGTTTGAATAAAAGTGATCCCTATATTG

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**FIGURE 734**

ATGGGCTCAGGCTACACCAAGGCCGTGTACCGGGTCCGCCTGCCC GGCGGTGCCGCGGTGGCGCTCAAGGCGGTG  
GACTTTAGCGGCCACGATCTGGGCAGCTGCGTGCGGAGTTTCGGGGTACGGAGGGGCTGCTATCGGCTGGCGGCC  
CACAAGCTGCTTAAGGAGATGGTGCTGCTGGAGCGGCTGCGGCACCCCAACGTGCTGCAGCTCTATGGCTACTGC  
TACCAGGACAGCGAGGACATCCCAGACACCCTGACCACCATCACGGAGCTGGGCGCCCCTGTAGAAATGATCCAG  
CTGCTGCAAACTTCCTGGGAGGATCGATTCCGAATCTGCCTGAGCCTGGGCGCCCTCCTCCACCACCTGGCCAC  
TCCCCACTGGGCTCCGTCACCTCTGCTGGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGATGGGGAGCTCAAAGTG  
ACGGACCTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGCAGCACCGACTGCATACTCGAGTTTCCGGCC  
AGGAACCTTCACCCTGCCCTGCTCAGCCCAGGGCTGGTGCGAGGGCATGAACGAGAAGCGGAACCTCTATAATGCC  
TACAGGTTTTTCTTCACATACCTCCTGCCTCACAGTGCCCCGCCTTCACTGCGTCCTCTGCTGGACAGCATCGTC  
AACGCCACAGGAGAGCTCGCCTGGGGGGTGGACGAGACCCTGGCCCAGCTGGAGAAGGTGCTGCACCTGTACCGG  
AGCGGGCAGTATCTGCAGAACTCCACGGCAAGCAGCAGTACCGAGTACAGTGTATCCCAGACAGCACCATCCCC  
CAGGAAGACTACCGCTGCTGGCCATCCTACCACCACGGGAGCTGCCTCCTTTTCACTGTTCAACCTGGCTGAGGCT  
GTGGATGTCTGTGAGAGCCATGCCAGTGTGCGGGCCTTTGTGGTCACCAACCAGACCACCTGGACAGGTCGGCAG  
CTGGTCTTTTTCAAGACTGGATGGAGCCAAGTGGTCCCTGATCCCAACAAGACCACATATGTGAAGGCCTCTGGC  
TGA

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**FIGURE 735**

MSGYTKAVYRVRLPGGAVALKAVDFSGHDLGSCVREFGVRRGCYRLAAHKLLKEMVLLERLRHPNVLQLYGYC  
YQDSEDIPDTLTTITELGAPVEMIQLLQTSWEDRFRICLSLGRLLHHLAHSPLGSVTLDDFRPRQFVLVDGELKV  
TDLDDARVEETPCAGSTDCILEFPARNFTLPCSAQGWCEGMNEKRNLNAYRFFFTYLLPHSAPPSLRPLDSIV  
NATGELAWGVDETLAQLEKVLHLYRSGQYLQNSTASSSTEYQCIPDSTIPQEDYRCWPSYHHGSCLLSVFNLAEA  
VDVCESHAQCRAFVVVNQTTWTGRQLVFFKTGWSQVVPDPNKTTYVKASG

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**FIGURE 736**

GCTAACATCCCAGACAGACAGATGTGACCAGGACAAACGTGCAATAATGCCAAATGTTAAAATGTGAGTTTACCA  
GCCTAGCTATGGGACTGCTGGCTCCTAGTCCAGGAATCATGGGGGTATGACTGCCTCTCCAACCCTGTGGGCTGT  
AAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCTCCCTGGGACGGTTCCGTGGGCAGCCCCATCACT  
GTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTCTCTCAGCTTAGGTCTGGACA  
GGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTATCTCTGACCTCCCGACAGG  
GGACACTCCCAGGCCAGCCCAGGGGTCAGGGGCAGAGGTGCACACCTCAGCATGAGCCAAGACTGGGGTCAGGGA  
GCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGTGGGGCCGGGGCCTTTCTGCCTCATTGCTTTCAATGAAA  
GCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAATCTTTGTACTTCTTGTTG  
GTTAAATTGTTTATTTTGTAAAAAATAAAATAAAATTAGTTAATAA

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**FIGURE 737**

MWVILYLGRLSLTSRQGTLPGQPRGQGQRCTPQHEPRLGSGSRCGLSQDLGRGWGRGLSASFANESLKAAKTRL  
SPFLEFEYPESFVLLVG

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**FIGURE 738A**

AGATGACTTTGGGAAATTGCTGCTGGCTGAGGCCCTCCTGGAGCAGTGTTTGAAGGAGAACCATGCCAAAATAAA  
AGACTCCATGCCTTTGCTGGAGAAGAATGAGCCGAAGATGAGCGAAGCCAAAAATTATCTAAGCAGTATCCTTAA  
CCATGGGAGGCTCTCGCCACAGTACATGTGTGAGGCCATGCTGATCCTGGGCAAACCTGCATTACGTGGAGGGCTC  
ATACCGAGATGCCATCAGCATGTACGCACGGGCCGGGATTGATGACATGTCCATGGAGAACAAGCCCCTGTATCA  
GATGCGGCTGCTGTGCGGAGGCTTTTGTCAATCAAAGGCCTCTCTCTGGAACGCCTACCCAACCTCCATCGCCTCCCG  
CTTCCGCTGACAGAGAGGGAGGAGGAAGTGATCACCTGTTTTGAGAGGGCCTCCTGGATCGCTCAGGTGTTCCCT  
GCAGGAATTGGAGAAGACCACAAATAACAGCACGTCGAGGCATCTGAAAGGCTGTCAACCGCTTGACTATGAGCT  
CACCTACTTCCTGGAAGCTGCCCTCCAGAGCGCCTATGTGAAAAACCTGAAGAAGGGGAACATCGTGAAGGGCAT  
GAGAGAGCTCCGGGAGGTGCTGCGGACTGTGGAGACCAAGCAACTCAGAACTTCAAAGTGATGGCGGCCAAGCA  
CCTGGCGGGGGTCTGCTGCACTCCCTGAGTGAGGAGTGCTACTGGAGCCCCCTGTCCCACCCCTCTGCCTGAGTT  
CATGGGCAAGGAGAGAGTTCTTTGCGCACTCAGGCCCTGCGGAAACCTCACCTCTATGAAGGAGACAACCTCTA  
CTGCCCCAAGGACAACATCGAGGAAGCCCTCCTGCTCCTCCTCATCAGCGAATCCATGGCAACTCGAGATGTGGT  
GCTGAGCCGGGTGCCGGAGCAGGAGGAGGACCGGACAGTGAGCTTGCGAGAATGCCGCAGCCATCTATGACCTCCT  
GAGCATCACGTTGGGCAGAAGGGGACAGTACGTCATGCTCTCGGAGTGCTGGAGCGAGCCATGAAGTTTGCCTT  
TGGAGAATTTACCTTTGGTACCAGGTGGCCCTCTCCATGGTGGCTTGTGGGAAGTCAGCCTACGCTGTGTCCCT  
GCTGCGGGAGTGTTGAAGTTGCGGCCCTCGGACCCACCGTGCCCTGATGGCCGCGAAGGTCTGCATCGGGTC  
CCTTCGCTGGCTAGAGGAAGCAGAGCACTTTGCCATGATGGTGATCAGCCTCGGAGAGGAAGCCGGGGAGTTCCCT  
CCCCAAGGGCTACCTGGCTCTGGGTCTCACCTATAGCCTGCAGGCCACCGACGCCACCCCTGAAGTCCAAGCAAGA  
TGAATTGCACCGGAAGGCACTGCAGACGCTGGAGAGGGCTCAGCAGCTGGCGCCCAGTGACCCCCAGGTATCCT  
CTATGTCTCGCTGCAGCTGGCCCTCGTCCGACAGATCTCCAGTGCCATGGAGCAGCTGCAGGAGGCCCTGAAGGT  
ACGCAAGGATGATGCCACGCCCTCCACCTGCTGGCACTGCTCTTCTCTGCCCAGAAGCACCACCAGCATGCCCT  
GGATGTTGTCAACATGGCCATCACCGAGCACCCCTGAGAACTTCAACCTGATGTTTACCAAGGTGAAGCTGGAGCA  
GGTGCTGAAAGGCCCAGAGGAAGCCCTCGTGACCTGCAGACAAGTGCTGAGGCTGTGGCAGACCCTGTACAGCTT  
CTCCCAGCTGGGAGGCCTAGAAAAGGATGGCAGCTTCGGTGAGGGCCTCACCATGAAGAAGCAGAGTGGCATGCA  
CCTGACTTTGCTGATGCCATGATGCAGACTCTGGCTCCCGCGGGCTTCGTCCATCGCCGCTCCCGGCTGGA  
GGAGGCCATGTGAGAGCTGACTATGCCCTCTTCGGTCTGAAGCAGGGCCCCATGCAGCTGTGGACCACGCTGGA  
ACAGATCTGGCTGCAGGCTGCTGAGCTGTTTATGGAGCAGCAGCACCTCAAGGAAGCAGGTTTCTGCATCCAGGA  
GGCGGGGGCCTCTTCCCCACTTCTCACTCAGTACTCTATATGCGGGGCCGCTGGCTGAGGTGAAGGGCAACCT  
GGAGGAGGCCAAGCAGCTGTACAAGGAGGCGCTCACGGTGAACCCAGATGGCGTGCGCATCATGCATAGCCTGGG  
TCTGATGCTGAGTCGGCTGGGCCACAAGAGCTTGGCCAGAAGGTGCTTCGTGATGCCGTGGAGAGGCAGAGTAC  
GTGCCACGAGGCGTGGCAGGGCCTGGGCGAGGTGCTGCAGGCCAGGGCCAGAACGAGGCTGCCGTTGACTGCTT  
CCTCACCGCCCTTGAGCTGGAGGCCAGCAGCCCTGTACTGCCCTTCTCCATCATCCCCAGAGAGCTCTGACGACG  
CTGCAGCCGCAGGGAGGGAGGGGCTGGCCAGAGGGAGAGGCAGCAGGGAACGTGGGTGAGGTGGGGCAACAGTG  
GCATCAGGTGCGGGCCTCAGGGAAATACATCTTTAGTGAACGCCTCTGCAGCTGCAGCCCTCGTTCTCTTGGCT  
GGGCCAAGAGGGCCTTCTGGATTTCTTTGTTGGTGCCTTGGGAAACAGTCTGACTTGAACCCTAAGTGCCTTTG  
GAGAGTTTTGTGGTGACCAGACTTGCTCCCCAAGAGCTGGGCAGCGGGGAGCCTCACAGCTGTCTTACCCTCA  
CCCATGCCCTCTGGCTTGGAGTCTGGGTGGGGGTTCTCACTCCCCACTCTCAGCACAGTACAGACTTCTGGATCT  
CTCTCAGGTCTTGGCCAGGGCGGTCACAATGTGAAGAACTGCGGGCAAGTGGGAAGACTATGAGATTTCTGGGT  
TCCCTTCTCAGACTTGGAGTTAGTAGATGATTCCTGCATTGCCCTGCTTGGCCTCTGAGACCAGCTGGGCCCA  
CCTTGCTCTTTCCCCCTGCTACCAAGTGCTTTGGGGTCTGACCAGGGGTACTGAGCACCGGCCCTAACACTTCC  
ATCTCCACCCACCCCATCTCCCTGGCGATGTGCTCCAGCCCAAGCAGCCTCCGTAGGCTTTAGATCCTGTGGTTG  
CTAGATCCAGTCCTTTCTAATACCCTGAGTCAACACATTACTCCTGCAGGTCTTAGGCTACAATGCAGGTCCCTT  
GAGGGCCACCAACATGGAGGTAGGCAGTTTCTAGGACTGTCCCCAGTACATCTCACCACCCACAGCCCTTTTTTT  
GCCTTGATTGAGCCTCACCTGGCCTTTTGGCTTCCCTGCCTGAGAGAGACCTGAGGAGGGGACAGAGCCAG  
CCCCTCTCCTGTGGCTGAGCAGGCCTCTGTGTCCATGACACCTGTCTTCCGGGCTGGGGGCTGTGGGTGTATGT  
CCTCCCTACTGGCTTCCCCGGCCCTGCTGCATGATGCTCTTGGAACTCTTCTCCAAGGAGTCAGTCCCCCAGGC  
CTATCAGGGGATCCTTTTGTATCTGCACCTTGGGTTTTAGTTTTCAAAGCTCCATCAGGTACAGCTTGCAATTCAG  
GATGTGTGGAAAGCTCGGGTGAGGGCTGCCCTGGTTCATCATAGCTCCACCTTCTCGGAAGGAGTGGGCTGTTG



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**FIGURE 738B**

GAGACCCCCCATCCATGGCACACTAGCTCAGCACTGCATTTCCCGAGATGATTCCCAAGACAGCTGGTGCCTCCT  
GGCTTTCCTGTGCCAGGCCAAGGGGCACCACAGAGGACCCTGGATCCTTTGCCTCTTCTTGTTGAAGGATCTCT  
ATGTATGTGTGTATATAAATATAGTTTTTTATCTATATATATAAAATAGAGATCTATTTTTTTTCTGGAATTCTG  
TTAGAAAAGTAAAGAAAAAGCAAATGCTGTTGGTTTATCTCAGGGTGCCCAAAGTGGTTATAGTCAATTTTTGGT  
ACTAGGAAAGGCACCCAATGCATTTCCCTGACTTTTAAGCATTTCCCTGTTGGAAGCAGCAGAGGGCCAGGCCAAG  
TTGCTGACAGTGACTTTGCAGGTTGAATAAAGAAACCCTTGGAGGGGAAGCAGGCTTGTCTGAAGCAGCATGTAT  
ATTCACTGGGCATGTAGCTCCACACCAGCCTTGAGCCAGGCCCTGGACAGGAGGGGCTGTTGCAGGATGAGGGA  
GGCCAGAGAAGGCATCGAAGCCAAGACCTGGGCCCACCTGGGGAGGGATGTGGGAAAGGAAGGATGGGAGGGAGG  
ACCCTCTGGGAAAATGTGGATTTGAGCTGGTGAGAGTGTTGCTAAGGCTGGGCTAAAGCCTGGAGAGGGTAGGAG  
GAGGCAAGAGGGGTCCAGGCAGGGCTGATCCTGGCCTCTGACCTGTCCAGGGCGACCCCTGAAGCCCCTGCTGCC  
TCTGGGCATTGCTGGGAGAGGCCAAGGCAGGACTCACGTCTGAACAGAGATCCCCTCGGGCATTGCTGATGGGCC  
ACCTTCAGCTGCAGGGAAGAAGCCTAGGAGAGGAGGCATGGGAGGGACCTGGGCCTTGTTTCAGATTGGCCACCTC  
TGCTGAGAAGTCCATACCAGTACACCCCTAATAAGTTATGCCACATACCAACGTACTGTGGATATTATAACCTGC  
ATTAAACAACCTCTAAAGAACGCTGCTCATT

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**FIGURE 739**

MAAKGAHGSYLKVESELERCRAEGHWDRMPVLVRQLQTLSPGGGGNRRGSPSAAFTFPDITDDFGKLLLAALLE  
QCLKENHAKIKDSMPLEKNEPKMSEAKNYLSSILNHGRLSPQYMCEAMLILGKLHYVEGSYRDAISMYARAGID  
DMSMENKPLYQMRLLSAFAVIKGLSLERLPNSIASRFLTEREEVITCFERASWIAQVFLQELEKTTNNSTSRH  
LKGCHPLDYELTYFLEAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFVMAAKHLAGVLLHSLSEECY  
WSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLISESMATRDVVLSRVPEQEEDRTVS  
LQNAAAIYDLLSITLGRRGQYVMLSECLERAMKFAFGEFHLWYQVALSMVACGKSAYAVSLLRECVKLRPSDPTV  
PLMAAKVCIGSLRWLEEAHFAMMVISLGEEAGEFLPKGYLALGLTYSLQATDATLKSQDELHRKALQTLERAQ  
QLAPSDPQVILYVSLQALALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQHALDVVNMAITEHPENF  
NLMFTKVKLEQVLKGPEEALVTCRQVLRRLWQTLYSFSQLGGLKDGSGFEGGLTMKKQSGMHLTLPDAHDADSGSR  
RASSIAASRLLEEAMSELTMPSSVLKQGPMQLWTTLQIWLQAAELFMEQQHLKEAGFCIQEAAGLFPTSHSVLYM  
RGRLAEVKGNLEEAKQLYKEALTVNPDGVRIMHSLGLMLSLRLGHKSLAQKVLRLDAVERQSTCHEAWQGLGEVLQA  
QGQNEAAVDCFLTALALELEASSPVLPSIIPREL

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**FIGURE 740**

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG  
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTTCACTATTTGACAAAGATGGTGATGGAACTA  
TAACAACAAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA  
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA  
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG  
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG  
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT  
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCCTTTCTTTGTTTGTAACCTTATCTGTAAAAGG  
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT  
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA  
TCTAAGCCCTTCTGCACATCTAAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA  
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG  
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG  
TACTGCTGGTCCGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTTAACTTTGTTTAGCCACTTAAAAAT  
CTGCTTATGGCACAATTTGCCTCAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTT

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**FIGURE 741**

GGCGGGAAACAGCTTAGTGGGTGTGGGGTCGCGCATTTTCTTCAACCAGGAGGTGAGGAGGTTTCGACATGCGCGG  
TGCAGCCGAAGGAGACGCTGCAGTTGGAGAGCGCGGCCGAGGTCGGCTTCGTGCGCTTCTTTCAGGGCATGCCGG  
AGAAGCCGACCACCACAGTGCGCCCTTTTCGACCGGGGCGACTTCTATACGGCGCACGGCGAGGACGCGCTGCTGG  
CCGCCCCGGGAGGTGTTCAAGACCCAGGGGTGATCAAGTACATGGGGCCGGCAGGAGCAAAGAATCTGCAGAGTG  
TTGTGCTTAGTAAAATGAATTTTGAATCTTTGTAAAAGATCTTCTTCTGGTTCGTGAGTATAGAGTTGAAGTTT  
ATAAGAATAGAGCTGGAATAAGGCATCCAAGGAGAATGATTGGTATTTGGCATATAAGGCTTCTCCTGGCAATC  
TCTCTCAGTTTGAAGACATTCTCTTTGGTAACAATGATATGTCAGCTTCCATTGGTGTGTGGGTGTTAAAATGT  
CCGCAGTTGATGGCCAGAGACAGGTTGGAGTTGGGTATGTGGATTCCATACAGAGGAAACTAGGACTGTGTGAAT  
TCCCTGATAATGATCAGTTCTCCAATCTTGAGGCTCTCCTCATCCAGATTGGACCAAAGGAATGTGTTTTACCCG  
GAGGAGAGACTGCTGGAGACATGGGGAACTGAGACAGATAATTCAAAGAGGAGGAATTCTGATCACAGAAAGAA  
AAAAAGCTGACTTTTCCACAAAAGACATTTATCAGGACCTCAACCGGTTGTTGAAAGGCCAAAAGGGAGAGCAGA  
TGAATAGTGCTGTATTGCCAGAAATGGAGAATCAGGTTGCAGTTTCATCACTGTCTGCGGTAATCAAGTTTTAG  
AACTCTTATCAGATGATTCCAACCTTTGGACAGTTTGAAGTACTACTTTTGAAGTTCAGCCAGTATATGAAATTGG  
ATATTGCAGCAGTCAGAGCCCTTAACCTTTTTTCAGGGTCTGTTGAAGATACCACTGGCTCTCAGTCTCTGGCTG  
CCTTGCTGAATAAGTGTAACCCCTCAAGGACAAAGACTTGTTAACCAGTGGATTAAAGCAGCCTCTCATGGATA  
AGAACAGAATAGAGGAGAGATTGAATTTAGTGGAAGCTTTTGTAGAAGATGCAGAATTGAGGCAGACTTTACAAG  
AAGATTTACTTTCGTGATTCCCAGATCTTAACCGACTTGCCAAGAAGTTTCAAAGACAAGCAGCAAACCTTACAAG  
ATTGTTACCGACTCTATCAGGGTATAAATCAACTACCTAATGTTATACAGGCTCTGGAAAAACATGAAGGAAAAC  
ACCAGAAATTATTGTTGGCAGTTTTTGTGACTCCTCTTACTGATCTTCGTTCTGACTTCTCCAAGTTTCAGGAAA  
TGATAGAAACAACCTTTAGATATGGATCAGGTGGAAGAACCATGAATTCCTTGTAACCTTCATTTGATCCTAATC  
TCAGTGAATTAAGAGAAATAATGAATGACTTGGAAGAAAGATGCAGTCAACATTAATAAGTGCAGCCAGAGATC  
TTGGCTTGACCCCTGGCAAACAGATTAACTGGATTCCAGTGCACAGTTTGATATTACTTTCGTGTAACCTGTA  
AGGAAGAAAAAGTCCTTCGTAACAATAAAAACCTTTAGTACTGTAGATATCCAGAAGAAATGGTGTAAATTTACCA  
ACAGCAAATTGACTTCTTTAAATGAAGAGTATACCAAAAATAAAACAGAATATGAAGAAGCCCAGGATGCCATTG  
TTAAAGAAATTGTCAATATTTCTTCAGGCTATGTAGAACCAATGCAGACACTCAATGATGTGTAGCTCAGCTAG  
ATGCTGTTGTGACGTTTGCTCAGTGTCAAATGGAGCACCTGTTCCATATGTACGACCAGCCATTTTGGAGAAAG  
GACAAGGAAGAATTATATTAAGCATCCAGGCATGCTTGTGTTGAAGTTCAAGATGAAATTGCATTTATTCCTA  
ATGACGTATACTTTGAAAAAGATAAACAGATGTTCCACATCATTACTGGCCCCAATATGGGAGGTAAATCAACAT  
ATATTGCACAACTGGGGTGATAGTACTCATGGCCCAATTTGGGTGTTTTGTGCCATGTGAGTCAGCAGAAGTGT  
CCATTGTGACTGCATCTTAGCCCGAGTAGGGGCTGGTGACAGTCAATTGAAAGGAGTCTCCACGTTTCATGGCTG  
AAATGTTGGAACTGCTTCTATCCTCAGGTCTGCAACCAAGATTCAATTAATAATCATAGATGAATTGGGAAGAG  
GAACCTTCTACCTACGATGGATTGGGTTAGCATGGGCTATATCAGAATACATTGCAACAAAGATTGGTGCTTTTT  
GCATGTTTGCAACCCATTTTCATGAACTTACTGCCTTGCCCAATCAGATACCAACTGTTAATAATCTACATGTCA  
CAGCACTCACCCTGAAGAGACCTTAAGTATGCTTTATCAGGTGAAGAAAGGTGTCTGTGATCAAAGTTTTGGGA  
TTCATGTTGCAGAGCTTGCTAATTTCCCTAAGCATGTAATAGAGTGTGCTAAACAGAAAGCCCTGGAACCTGAGG  
AGTTTCAGTATATTGGAGAAATCGCAAGGATATGATATCATGGAACCAGCAGCAAAGAAGTGCTATCTGGAAAGAG  
AGCAAGGTGAAAAAATTATTCAGGAGTTCCGTGTCCAAGGTGAAACAAATGCCCTTTACTGAAATGTCAGAAGAAA  
ACATCACAATAAAGTTAAAAACAGCTAAAGCTGAAGTAATAGCAAAGAATAATAGCTTTGTAAATGAAATCATT  
CACGAATAAAGTTACTACGTGAAAAATCCCAGTAATGGAATGAAGGTAAATATGATAAGCTATTGTCTGTAATA  
GTTTTATATTGTTTTATATTAAACCTTTTTCCATAGTGTTAACTGTCAGTGCCCATGGGCTATCAACTTAATAAG  
ATATTTAGTAATATTTTACTTTGAGGACATTTTCAAAGATTTTTATTTTGAAAAATGAGAGCTGTAAGTGGAGC  
TGTTTGCAATTGACATAGGCAATAATAAGTGATGTGCTGAATTTTATAAATAAAATCATGTAGTTTGTGG

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**FIGURE 742**

MAVQPKETLQLESAAEVGFVRFFQGMPEKPTTTVRLFDGRDFYTAHGEDALLAAREVFKTQGVIKYMGPAGAKNL  
QSVVLSKMNFESEFVKDLLLVQRVEVYKNRAGNKASKENDWYLAYKASPGNLSQFEDILFGNNDMSASIGVVGV  
KMSAVDGGQRQVGVGYSIQRKLGLCEFPDNDQFSNLEALLIQIGPKECVLPGETAGDMGKLRQIIQRGGIIT  
ERKKADFSTKDIYQDLNRLLKGKKGEQMNSAVLPEMENQVAVSSLSAVIKFLELLSDDSNFGQFELTTDFDSQYM  
KLDIAAVRALNLFQGSVEDTTGSQSLAALLNKCKTPQGQRLVNQWIKQPLMDKNRIEERLNLVEAFVEDAELRQT  
LQEDLLRRFPDLNRLAKKFQRQAANLQDCYRLYQGINQLPNVIQALEKHEGKHQKLLAVFVTPPLTDLRSDFSKE  
QEMIETTLDMQVENHEFLVKPSFDPNLSELREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFGYYFRV  
TCKEEKVLRNNKNFSTVDIQKNGVKFTNSKLTSLNEEYTKNKTEYEEAQDAIVKEIVNISSGYVEPMQTLNDVLA  
QLDAVVSFAHVSNGAPVPYVRPAILEKGQGRILKASRHACVEVQDEIAFIPNDVYFEKDKQMFHIITGPNMGGK  
STYIRQTGVIVLMAQIGCFVPCESA EVSIVDCILARVGAGDSQLKGVSTFMAEMLETASILRSATKDSLIIIDEL  
GRGTSTYDGFGLAWAISEYIATKIGAFCMFATHFHELTALANQIPTVNNLHVTALTTEETLTMLYQVKKGVCDQS  
FGIHVAELANFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVKQMPFTEMS  
EENITIKLKQLKAEVIAKNNSFVNEIISRIKVT

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**FIGURE 743**

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACACTACGAGAGTACAAAGTAGTGG  
GTCGCTGCCTGCCCACCCCCAAATGCCACACACCACCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG  
TCGCCAAGTCCCGCTTCTGGTACTTCGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT  
GTGGGCAGGTGTTTGAGAAGTTCCCCCTTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG  
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCGGTGCTACCGAGACATGA  
GCGCCCGGCACGCGGCCGGGCCCACTCCATTGAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC  
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA  
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGCCCGGGTGTGCCCCAAATAA  
ACTCAGGAACGCCCC

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**FIGURE 744A**

ATTTCCCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCCGACAGAACGGTTGGGCCTTG  
CCGGCTGTTCGGTATGTCGCGACAGAGCACCTGTACAGCTTCTTCCCAAGTCTCCGGCGCTGAGTGATGCCAAC  
AAGGCCTCGGCCAGGGCTCACGCGAAGGCGGCCGTGCCGCCGTGCCCCCGGGGCTCTCCTTCCCCAGGCGGG  
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC  
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTGTT  
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC  
GAGAAAGGGAAATCAGTCCGTGTTTCATGTACAGTTTTTTGATGACAGCCCAACAAGGGGCTGGGTAGCAAAAGG  
CTTTTAAAGCCATATACAGGTTCAAATCAAAGGAAGCCAGAAGGGAGGTCATTTTACAGTGCAAGCCTGAA  
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT  
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAGAA  
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA  
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTTAAGCCAGACACTAAGGAG  
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT  
GCTCGAAAGCGGAAGAGAATGGTGACTGGAATGGCTCTCTTAAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA  
GCCACCAAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTCTCTGCCCCCTCAAATTTCT  
GAATCCCAAGCCACGTTAGTGGAGGTGGTGATGACAGTAGTCGCCCTACTGTTTGGTATCATGAACTTTAGAA  
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCGATTTTGTATGCATCTACACTC  
TATGTGCTGAGGATTTCTCTCAATTCTTGTACTCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTTT  
GATCTTGTCTATCTGTTACAAGGTGGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA  
CTGGGGCTGGTATTTCATGAAAGGCAACTGGGCCATTCTGGCTTTCTGAAATTGCATTTGGCCGTTATTTCAGAT  
TCCCTGGTGCAGAAGGGCTATAAAGTAGCACGAGTGAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT  
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAGGAGGGAGATCTGTAGGATCATTACCAAGGGTACA  
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAAGAG  
GAAGATTCTTCTGGCCATACTCGTGCATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT  
CAGTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCAGTACAAGTTTTATT  
GAAAAAGGAAATCTCTCAAAGGAACTAAAACAATTCTAAAGAGTTTCATTGTCCTGTTCTCTTCAGGAAGGTCTG  
ATACCCGGCTCCAGTTTTTGGGATGCATCCAAAACCTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGGAAAAG  
CTAAGTGATGGCATTGGGGTGATGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG  
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGTCTTCTACCTCAAAAAATGCCTTATT  
GATCAGGAGCTTTTATCAATGGCTAATTTTGAAGAATATATTCCCTTGGAATCTGACACAGTCAGCACTACAAGA  
TCTGGTGCTATCTTCAACAAAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAACAACCTTGAGATTTTT  
CTGAATGGAACAAATGGTTCTACTGAAGGAACCCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG  
CGGCTCCTAAAGCAATGGCTTTGTGCCCACTCTGTAAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA  
GACCTCATGGTTGTGCCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA  
CTCAGTAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCACCCAGACAGCAGGGCTATAATGTATGAA  
GAAACTACATACAGCAAGAAGAAGATTATTGATTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAAATT  
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAATCCTTAAGCAGGTCATCTCTGCGACAAAA  
AATCCTGAAGGTCGTTTTCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT  
CGAAAGACTGGACTTATTACTCCCAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA  
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG  
ATTGGTAGGAACCGTTACCAGCTGGAATTCCTGAGAATTCACCACTCGCAATTTGCCAGAAGAATACGAGTTG  
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT  
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATACTTTGATAAAAATTACAAGGAC  
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTGGATGTTTTACTGTGCCTGGCTAACTATAGTCGAGGGGGTGAT  
GGTCTATGTGTGCCCCAGTAATTCTGTTGCCGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT  
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG  
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAAAATATGGGGGGCAAGTCTACGCTTATGAGACAG  
GCTGGCTTATTAGCTGTAATGGCCCAGATGGGTTGTTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT

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**FIGURE 744B**

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTGAATTAAGTGAA  
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA  
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA  
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA  
GAAAATGAATGTGAAGACCCCAGCCAGGAGACTATTACGTTCTCTATAAAATTCATTAAGGGAGCTTGTCTCTAAA  
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCAGAGGAAGTTATTCAAAGGGACATAGAAAAGCAAGA  
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTTCGGGAAGTTTGCCTGGCTAGTGAAAGGTCAACTGTAGAT  
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT  
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAATGA



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**FIGURE 745**

MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAPGASPSPGGDAWSEAGPGRPLARSASPPKAKNLNGG  
LRRSVAPAAPTSCDFSPGDLVWAKMEGYPWWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP  
YTGSKSKEAQKGGHFYSAPKEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVTYVTDKSEEDNEI  
ESEEVEQPKTQGSRRSSRQIKRRVISDSSEDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR  
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAFSAPQNSSEQAHVSGGGDDSSRPTVWYHETLEWLKE  
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKIFYELYHMDALIGVSELGLV  
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQYYS  
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHC SRFRTLVAHYPPVQVLFKGN  
LSKETKTILKSSLSCSLQEG LIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE  
KSELALSALGGCVFYLLKKCLIDQELLSMANFEEYIPLDSDTVSTTRSGAIFTKAYQRMVLD AVTLNNLEIFLNGT  
NGSTEGTLLERVDTCHTPF GKRLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI  
HNVSPLKSNHPDSRAIMYEETYSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG  
RFPDLTVELNRWDTAFDHEKARKTGLITPKAGFDSYDQALADIRENEQSLLEYLEKQNRNIGCRTIVYWGIGRN  
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAEERRDVSLKDCMRRLFYNFDKNYKDWQSA  
VECIAVLVDVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKGSRHPCITKTFFGDDFIPNDILIGCEEEQENG  
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCYVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI  
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKRTRLFSTHYHSLVEDYSQNVAVRLGHMACMVENEC  
EDPSQETITFLYKFIKGACPKSYGFNAARLANLPEEVIQKGRKAREFEKMNQSLRLFREVLCLASERSTVDAEAV  
HKLLTLIKEL

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**FIGURE 746A**

GTGAGCTGAAGCAGGGCAGGGCATCAACTCACCCAGGAAGTGCAAGGGGTTTGGGGATTTTCCTTTCTTAGCCAA  
GGGAAGGCATGACAGACTGTACCTGGAAAAACAGGACACTCTTGCCCAAATACTGCACTTTTTGCACAGTCTTAG  
CAACTGGCAGACCAGGAGATTCTCTCTGTGCTGATTCAATTGGGTCCCACACCCATAGGGCCTTGCTTACTGCC  
AGTGCAGCAGTCTGAGATTAAACACCCCATCCCCGGGAGAACTCTAAGAAGGAGCTGATGTGGAGGAGCAGCTGAG  
ACAGTTCAAGATGACGACCACAGTAGCCACAGACTATGACAACATTGAGATCCAGCAGCAGTACAGTGATGTCAA  
CAACCGCTGGGATGTGACGACTGGGACAATGAGAACAGCTCTGCGCGGCTTTTTGAGCGGTCCCGCATCAAGGC  
TCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTGGGTCAATTCACACCTTGCCCGTGTGTC  
CTGCCGGATCACAGACCTGTACACTGACCTTCGAGATGGACGGATGCTCATCAAGCTGCTGGAGGTCTCTCTGG  
AGAGAGGCTGCCTAAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGACAAGGCCCTTCAGTT  
CCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTCCCATGACATCGTGGATGGAAACCACCGGTGACCTT  
TGGCCTCATCTGGACCATCATCTGCGCTTCAGATCCAGGATATCAGTGTGGAACTGAAGACAACAAAGAGAA  
GAAATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGGGTACCCCAATGTCAACATTCACAA  
TTTACCACCTAGCTGGAGGGACGGCATGGCCTTCAATGCACTGATACACAAACACCGGCCTGACCTGATAGATTT  
TGACAAACTAAAGAAATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACAGCACCTCGGCCT  
CACTAACTGTTGGACCCCGAAGACATCAGCGTGGACCATCCTGATGAGAAGTCCATAATCACTTATGTGGTGAC  
TTATTACCCTACTTCTCTAAGATGAAGGCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGC  
TATTGAAACAGAAAAATGATTGAAAAGTATGAATCACTTGCTCTGACCTTCTGGAATGGATTGAACAAACCAT  
CATCATTCTGAACAATCGCAAATTTGCCAATTCAGTGGTGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTA  
CCGCACTGTGGAGAAACCACCCAAATTTACTGAGAAGGGGAACTTGAAGTGTGCTCTTACCATTACAGAGCAA  
GATGAGGGCCAACAACCAGAAGGTCTACATGCCCCGGGAGGGGAAGCTCATCTCTGACATCAACAAGGCCTGGGA  
AAGACTGGAAAAAGCGGAACACGAAAGAGAAGTGGCTTTGCGGAATGAGCTCATAAGACAGGAGAACTGGAACA  
GCTCGCCCGCAGATTTGATCGCAAGGCAGCTATGAGGGAGACTTGGCTGAGCGAAAACCAGCGTCTGGTGTCTCA  
GGACAACCTTTGGGTTTGACCTTCTGCAAGTTGAGGCCGCCACAAAAAGCACGAGGCCATTGAGACAGACATTGC  
CGCATACGAGGAGCGTGTGAGGCTGTGGTAGCCGTGGCCAGGGAGCTCGAGGCCGAGAATTACCACGACATCAA  
GCGCATCACAGCGAGGAAGGACAATGTCATCCGGCTCTGGGAATACCTACTGGAAGTCTCAGGGCCCCGGAGACA  
GCGGCTCGAGATGAACCTGGGGCTGCAGAAGATATTCCAGGAAATGCTCTACATTATGGACTGGATGGATGAAAT  
GAAGGTGCTAGTATTGTCTCAAGACTATGGCAAACACTTACTTGGTGTGGAAGACCTGTTACAGAAGCACACCTT  
GGTTGAAGCAGACATTGGCATCCAGGCAGAGCGGGTGAGAGGTGTCAATGCCTCCGCCAGAAAGTTCCGAACAGA  
CGGGGAAGGTTACAAGCCCTGTGACCCCCAGGTGATCCGAGACCGCGTGGCCACATGGAGTTCTGTTATCAAGA  
GCTTTGCCAGCTGGCGGCTGAGCGCAGGGCCCGTCTGGAAGAGTCCCGCCGCTCTGGAAGTTCTTCTGGGAGAT  
GGCAGAAGAGGAAGGCTGGATACGGGAGAAGGAGAAGATCCTGTCTCGGACGATTACGGGAAGACCTGACCAG  
CGTCATGCGCTGCTCAGCAAGCACCGGGCGTTTCGAGGACGAGATGAGCGGCCGAGTGGCCACTTTGAGCAGGC  
CATCAAGGAAGGCGAAGACATGATCGCGGAGGAGCACTTCGGGTGCGAGAAGATCCGTGAGAGGATCATTACAT  
CCGGGAGCAGTGGGCCAACCTAGAGCAGCTCTCGGCCATTTCGGAAGAAGCGCCTGGAGGAGGCCTCCCTGCTGCA  
CCAGTTCCAGGCAGATGCTGATGACATTGATGCCTGGATGTGGACATCCTCAAGATTGTCTCCAGCAGCGACGT  
GGGCCACGATGAGTATTCCACACAGTCTCTGGTCAAGAAACACAAGGACGTGGCGGAAGAGATCGCCAATTACAG  
GCCCCCCTTGACACGCTGCACGAACAAGCCAGCGCCCTCCCCAGGAGCATGCCGAGTCTCCAGACGTGAGGGG  
CAGGCTGTGCGGCATCGAGGAGCGGTATAAGGAGGTGGCAGAGCTGACGCGGTGCGGAAGCAGGCACTCCAGGA  
CACTCTGGCCCTGTACAAGATGTTTCAGCGAGGCTGATGCCTGTGAGCTCTGGATCGACGAGAAGGAGCAGTGGCT  
CAACAACATGCAGATCCAGAGAAGCTGGAGGATCTGGAGGTCATCCAGCACAGATTGAGAGCCTAGAACCAGA  
AATGAACAACCAGGCTTCCCGGTTGCAAGTGGTGAACCAGATTGCACGCCAGCTGATGCACAGCGGCCACCCAAG  
TGAGAAGGAAATCAAAGCCCAGCAGGACAACTCAACACAAGGTGGAGCCAGTTCAGAGAAGTGGTTGACAGGAA  
GAAGGATGCCCTCCTGTCTGCCCTGAGCATCCAGAACTACCACCTCGAGTGCAATGAAACCAATCCTGGATTCCG  
GGAAAAGACCAAGGTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCTGCAGCGCAA  
GCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAAGCTGAGTGACCTGCAGAAGGAGGCGGAGAGCT  
GGAGTCCGAGCACCCCGACCGGCCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGAT  
GAAGACCACCTGAAAAACCGAGAGGCCTCCCTGGGAGAGGCCAGCAAGCTGCAGCAGTTCTACGGGACTTGGA  
CGACTTCCAGTCTGGCTCTCTAGGACCCAGACAGCGATCGCCTCGGAGGACATGCCAAACACCTGACCGAGGC

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**FIGURE 746B**

TGAGAAGCTGCTCACGCAGCACGAGAACATCAAGAATGAGATCGACAACACTACGAGGAGGACTACCAGAAGATGAG  
GGACATGGGCGAGATGGTCACCCAGGGGCAGACCGATGCCAGTACATGTTTCTGCGGCAGCGGCTGCAGGCCCT  
GGACACTGGATGGAACGAGCTCCACAAGATGTGGGAGAACAGACAAAATCTCCTATCCCAGTCACATGCCTACCA  
GCAGTTCTCAGAGACACGAAGCAAGCCGAAGCCTTTCTTAACAACCAGGAGTATGTTCTGGCTCACACTGAAAT  
GCCTACCACCTTGGAAGGAGCTGAAGCAGCAATTAAAAAGCAAGAGGACTTCATGACCACCATGGACGCCAATGA  
GGAGAAGATCAATGCTGTGGTGGAGACTGGCCGGAGGCTGGTGAGCGATGGGAACATCAACTCAGATCGCATCCA  
GGAGAAGGTGGACTCTATTGATGACAGACATAGGAAGAATCGTGAGACAGCCAGTGAACTTTTGATGAGGTTGAA  
GGACAACAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGCTGTCTCTCTGGATCAATGAGAAGATGCTCAC  
AGCCCAGGACATGTCTTACGATGAAGCCAGAAATCTGCACAGTAAATGGTTGAAGCATCAAGCATTATGCGAGA  
ACTTGTCATCCAACAAAGAATGGCTTGACAAAATCGAGAAGGAAGGAATGCAGCTCATTTAGAAAAGCCTGAGAC  
GGAAGCTGTGGTGAAGGAGAACTCACTGGTTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAGACAAA  
GGCCCAGCGGCTCTTTGATGCAAAACAAGGCCGAACTTTTACCCAGAGCTGTGCAGATCTAGACAAATGGCTGCA  
CGGCTTGGAGAGTCAGATTGAGTCTGATGACTATGGCAAACACCTGACCAGTGTCAATATCCTGCTGAAAAAGCA  
ACAGATGCTGGAGAATCAGATGGAAGTGCAGGAAGAAGGAGATCGAAGAGCTCCAAAGCCAAGCCAGGCCCTGAG  
TCAGGAAGGGAAGAGCACCGACGAGGTAGACAGCAAGCGCCTCACCGTGCAGACCAAGTTTCATGGAGTTGCTGGA  
GCCCTTGAACGAGAGGAAGCATAACCTGCTGGCCTCCAAAGAGATCCATCAGTTCAACAGGGATGTGGAGGACGA  
GATCTGTGGGTTGGAGAGAGGATGCCTTTGGCAACTTCCACGGATCATGGCCACAACCTCCAGACTGTGCAGCT  
GTTAATAAAGAAAAATCAGACCCTCCAGAAAGAAATCCAGGGGCACCAGCCTCGCATTGACGACATCTTTGAGAG  
GAGCCAAAACATCGTCACTGACAGCAGCAGCCTCAGCGCTGAGGCCATCAGACAGAGGCTTGCCGACCTGAAGCA  
GCTGTGGGGTCTCCTCATTGAGGAGACAGAGAAACGCCACAGGCGGCTGGAGGAGGCGCACAGGGCCCAGCAGTA  
CTACTTTGACGCTGCTGAGGCCGAAGCCTGGATGAGCGAGCAGGAGCTGTACATGATGTGAGAGGAGAAGGCCAA  
GGATGAGCAGAGTGTGTCTCCATGTTGAAGAAGCACCAGATCTTAGAACAAGCTGTGGAGGACTATGCAGAGAC  
CGTGCATCAGCTCTCCAAGACCAGCCGGGCCCTGGTGGCCGACAGCCATCCTGAAAGTGAGCGCATTAGCATGCG  
GCAGTCCAAAGTGATAAACTGTACGCTGGTCTGAAAGACCTTGCTGAAGAGAGAAGAGGCAAGCTGGATGAGAG  
ACACAGGTTATTCCAGCTCAACCGGGAGGTGGACGACCTGGAGCAGTGGATCGCTGAGAGGGAGGTGGTCGCAGG  
GTCCCATGAAGTGGGACAGGACTATGAGCATGTACGATGTTACAAGAACGATTCCGGGAGTTTGCCCGAGACAC  
CGGGAACATTGGGCAGGAGCGCGTGGACACGGTCAATCACCTGGCAGATGAGCTCATCAACTCTGGACATTGAGA  
TGCCGCCACCATCGCTGAATGGAAGGATGGCCTCAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACACAAG  
AACACAGATTCTTGCCGCTTCCTATGAAGTGCACAAGTTTTACCACGATGCCAAGGAGATCTTTGGGCGTATACA  
GGACAAACACAAGAACTCCCTGAGGAGCTTGGGAGAGATCAGAACACAGTGGAGACCTTACAGAGAATGCACAC  
TACATTTGAGCATGACATCCAGGCTCTGGGCACACAGGTGAGGCAGCTGCAGGAGGATGCAGCCCGCTCCAGGC  
GGCCTATGCGGGTGACAAGGCCGACGATATCCAGAAGCGCGAGAACGAGGTCCCTGGAAGCCTGGAAGTCCCTCCT  
GGACGCCCTGTGAGAGCCGAGGGTGC GGCTGGTGGACACAGGGGACAAGTTCCGCTTCTTCAGCATGGTGC GCGA  
CCTCATGCTCTGGATGGAGGATGTCATCCGGCAGATCGAGGCCAGGAGAAGCCAAGGGATGTATCATCTGTTGA  
ACTCTTAATGAATAATCATCAAGGCATCAAAGCTGAAATTGATGCACGTAATGACAGTTTCACAACCTGCATTGA  
ACTTGGGAAATCCCTGTTGGCGAGAAAACACTATGCATCTGAGGAGATCAAGGAAAAATTACTGCAGTTGACGGA  
AAAGAGGAAAGAAATGATCGACAAGTGGGAAGACCGATGGGAATGGTTAAGACTGATTCTGGAGGTCCATCAGTT  
CTCAAGAGACGCCAGTGTGGCCGAGGCCTGGCTGCTTGGACAGGAGCCGTACCTATCCAGCCGAGAGATAGGCCA  
GAGCGTGGACGAGGTGGAGAAGCTCATCAAGCGCCACGAGGCATTTGAAAAGTCTGCAGCAACCTGGGATGAGAG  
GTTCTCTGCCCTGGAAAGGCTGACTACATTGGAGTTACTGGAAGTGCGCAGACAGCAAGAGGAAGAGGAGAGGAA  
GAGGCGGCCGCTTCTCCCGAGCCGAGCAGAAAGTTTTAGAGGAAGCCGAGTCCCAGCAGCAGTGGGATACTTC  
AAAAGGAGAACAAGTTTTCCCAAACGGTTTGCCAGCTGAACAGGGATCTCCACGGATGGCAGAAACGGTGGACAC  
AAGCGAAATGGTCAACGGCGCTACAGAACAAAGGACGAGCTCTAAAGAGTCCAGCCCCATCCCTCCCCGACCTC  
TGATCGTAAAGCCAAGACTGCCCTCCCAGCCAGAGTGCCGCCACCTTACCAGCCAGAACCCAGGAGACACCTTC  
GGCCAGATGGAAGGCTTCTCAATCGGAAACACGAGTGGGAGGCCCAATAAGAAAGCCTCAAGCAGGTCTCTG  
GCACAATGTTTATTGTGTCATAAATAACCAAGAAATGGGTTTCTACAAAGATGCAAAGACTGCTGCTTCTGGAAT  
TCCCTACCACAGCGAGGTCCCTGTGAGTTTGAAAGAAGCTGTCTGCGAAGTGGCCCTTGATTACAAAAGAAGAA  
ACACGTATTCAAGCTAAGACTAAATGATGGCAATGAGTACCTCTTCCAAGCCAAAGACGATGAGGAAATGAACAC

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**FIGURE 746C**

ATGGATCCAGGCTATCTCTTCCGCCATCTCCTCTGATAAACACGAGGTGTCTGCCAGCACCCAGAGCACGCCAGC  
ATCCAGCCGCGCGCAGACCCCTCCCCACCAGCGTCGTCACCATCACCAGCGAGTCCAGTCCCGGCAAGCGGGAAAA  
GGACAAAGAGAAAGACAAAGAGAAGCGGTTTCAGCCTTTTTGGCAAAAAGAAATTGACTCCTTTCCTTCACCTCCT  
GCCCTTCTCTTACCTTTTCAGTGAAATTCAGCATGCAAGCTCAGAACCAACACATTACTCTCTGTGCCTAATGT  
TCCTCAATGTGGTTGATTTATTTTTTTTTTTAATTTATAGAGCATTCGGGGGGGGTGGGG

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**FIGURE 747**

MTTIVATDYDNIEIQQQYSDVNNRWDVDDWDNENSSARLFERSRIKALADEREAVQKKTFTKWVNSHLARVSCRI  
TDLYTDLRDGRMLIKLLEVLSEGERLPKPTKGRMRIHCLENVDKALQFLKEQRVHLENMGSHDIVDGNHRLTLGLI  
WTIILRFQIQDISVETEDNKEKKSADALLWCQMKTAGYPNVNIHNFTTSWRDGMFAFNALIHKHRPDLIDFDKL  
KKSNAHYNLQNAFNLAEQHLGLTKLLDPEDISVDHPDEKSIITYVVITYYHYFSKMKALAVEGKRIGKVLDNAIET  
EKMIKEYESLASDILLEWIEQTIIILNNRKFANSLVGVQQQLQAFNTYRTVEKPPKFEKGNLEVLLFTIQSKMRA  
NNQKVYMPREGKLISDINKAWERLEKAEHERELALRNELIRQEKLEQLARRFDRKAAMRETWLSNQRLVSQDNF  
GFDLPAVEAATKKHEAIEDIAAYEERVQAVVAVARELEAENYHDIKRITARKDNVIRLWEYLLELLRARRQRLE  
MNLGLQKIFQEMLYIMDWMDEMVLVLSQDYGKHLGVEDLLQKHTLVEADIGIQAERVGVNASAQKFATDGE  
YKPCDPQVIRDRVAHMEFCYQELCQLAAERRARLEESRRLWKFFWEMAE EEGWIREKEKILSSDDYGKDLTSVMR  
LLSKHRAFEDEMSGRSGHFEQAIKEGEDMIAEEHFGESEKIRERIIYIREQWANLEQLSAIRKKRLEEASLLHQFQ  
ADADDIDAWMLDILKIVSSSDVGHDEYSTQSLVKKHKDVAEEIANYRPTLDTLHEQASALPQEHAE SPDVRGLS  
GIEERYKEVAELTRLRKQALQDTLALYKMFSEADACELWIDEKEQWLNNMQIPEKLEDLEVIQHRFESLEPEMNN  
QASRVAVVNQIARQLMHSGHPSEKEIKAQQDKLNTRWSQFRELVD RKKDALLSALS IQNYHLECNETKSWIREKT  
KVIESTQDLGNDLAGVMALQRKLTGMRDLVAIEAKLSDLQKEAEKLESEHPDQAQAILSR LAEISDVWEEMKTT  
LKNREASLGEASKLQQFLRDLDDFQSWLSRTQTAIASEDMPNTLTAEKLLTQHENIKNEIDNYEEDYQKMRDMG  
EMVTQGQTD AQYMLRQRLQALDTGWNELHKMWENRQNL LSQSHAYQQFLRDTKQAEAF LNNQEYVLAHTEMP TT  
LEGAEAAIKKQEDFMTTMDANEEKINAVVETGRRLVSDGNINS DRIQEKVDSIDDRHRKNRETASELLMRLKDNR  
DLQKFLQDCQELSLWINEKMLTAQDMSYDEARNLH SKWLKHQAFMAELASNKEWLDKIEKEGMQLISEKPETEAV  
VKEKLTGLHKMWEVLESTTQTAKARLFDANKAELFTQSCADLDKWLHGLESQIQSDDYGKHLTSVNILLKKQQML  
ENQMEVRKKEIEELQSQAQALSQEGKSTDEVDSKRLTVQTKFMELLEPLNERKHNLLASKEIHQFN RDVEDEILW  
VGERMPLATSTDHGHNLQTVQLLIKKNQTLQKEIQGHQPRIDDI FERSQNIIVTDSSSLSAEAI RQRLADLKQLWG  
LLIEETEKRRHRLLEEAHRAQQYYFDAEAEAWMSEQELYMMSEEKAKDEQSAVSMLKKHQILEQAVEDYAETVHQ  
LSKTSRALVADSHPESE RISMRSQSKVDKLYAGLKDLAEERRGKLDERHRLFQLNREVD DLEQWIAEREVVAGSHE  
LGQDYEHV TMLQERFREFARDTGNIGQERVDTVNHLADELINS GHSDAATIAEWK DGLNEAWADLLELIDTRTQI  
LAASYELHKFYHDAKEIFGRIQDKHKKLPEELGRDQNTVETLQRMHTTFEHD IQALGTQVRQLQEDAARLQAAYA  
GDKADDIQKRENEVLEAWKSLLDACESRRVRLVDTGDKFRFF SMVRDMLWMEDVIRQIEAQEKPRDVSSVELLM  
NNHQGIKAEIDARNDSTTCIELGKSLLARKHYASEEIKEKLLQLTEKRKEMIDKWEDRW EWLRLILEVHQFSRD  
ASVAEAWLLGQEPYLSSREIGQSVDEVEKLIK RHEAFEKSAATWDERFSALERLT TLELLEVRROQEEEEERKRRP  
PSPEPSTKVSEEAESQQQWDTSKGEQVSQNGLP AEQGSPRMAETVDTSEMVNGATEQRTSSKESP IPSPTSDRK  
AKTALPAQSAATLPARTQETPSAQMEGFLNRKHEWEAHNKKASSRSWHNVYCVINNQEMGFYKDAKTAASGIPYH  
SEVPVSLKEAVCEVALDYKKKKHVFKLRLNDGNEYLFQAKDDEEMNTW IQAISSAISSDKHEVSASTQSTPASSR  
AQTLPTSVVTITSESSPGKREKDKEKDKEKRFSLF GKKK

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**FIGURE 748**

CACAACCGCCCGCGGCTCTGAGACGCGGCCCCGGCGGCGGCGGCAGCAGCTGCAGCATCATCTCCACCCTCCAGC  
CATGGAAGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGAAGACCTGGAGGAGCTGGAGGTGCT  
GGAGAGGAAGCCCGCCCGGGCTGTCCGCGGCCCCAGTGCCCACCGCCCCCTGCCGCCGGCGCGCCCCCTGATGGA  
CTTCGGAATGACTTCGTGCCGCCGGCGCCCCGGGGACCCCTGCCGGCCGCTCCCCCGTCCGCCCGGAGCGGCA  
GCCGTCTTGGGACCCGAGCCCGGTGTCGTCGACCGTGCCCGCGCCATCCCCGCTGTCTGCTGCCGCAGTCTCGCC  
CTCCAAGCTCCCTGAGGACGACGAGCCTCCGGCCCGG

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**FIGURE 749**

TTCTTCCTTTTCGATCCGCCATCTGCGGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTACGGGGA  
AGACCATCACCCCTCGAGGTTGAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAA  
TTCCTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATA  
TTCAAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACA  
CCACTCCCAAGAAGAATAAGCACAAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATATTATAAGGTGGATGAGA  
ATGGCAAAATTAGTCGCCTTCGTGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGTCACT  
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACAAGTAACTGTATGAGT  
TAATAAAAGACATGAACTAACAAAAA

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**FIGURE 750**

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG  
GAKKRKKKSYTTPKKNKHKRKKVLAFLKYYKVDENGKISRLRRECPSECGAGVFMASHFDRHYCGKCCLTYCF  
NKPEDK



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**FIGURE 751**

GGCACGAGCAGAATCCAGGGGCCCGGGGCTGTAGATTCCCTTGACAAGGATATCCTAGCGGCGAAACAACACCGTA  
CTGGGAGTCAGAACGTCTGGGTTCTAGTCTTGACTGCCATTAAGTAGCGGTATGACATTGGAGAAGCTTTTTTGA  
CCCTTCTGGATTTCGGTTTCCTTTTCTGTAAAATGAGGAGCTTGGAAGATCCGGAAAATGAGGCCCATAGGAAAC  
AAGTGACTTGCTGAGTCCAGATAAACTGACTGTCAGAGAGAAAACATGAACCAGAAAGCTACTGAAGTTGGAGAAC  
TTGCTACGATTTACACTATTTATAGGCAACTGCACAGTCTGTGTCAAAGAAGAGCATTAAAGACAGTGGAGGCAT  
GGGTTTTTCATCTGCTTACCCGTGTGTGGACAGCTCAACTGTGTGCCTGGCCCTGGCCAACAGATGTGCTCAATGGG  
GCTGCTTTATCTCAGTATAGGCTTCTAGTAACAAAAAAGGAAGAAGGACCATGGAAATCTCAGTTATCTTCAACA  
AAATCTAAAAAGGTGGTAGAAGTATGGATTGGAATGACTATTGAGGAACTGGCCAGGGCAATGGAAAAAACACA  
GATTATGTATATGAAGCTTTATTGAACACTGATATTGACATAGATTCACTGGAAGCAGACTCACATTTAGATGAA  
GTCTGGATCAAAGAAGTGATAACGAAGGCAGGGATGAAGTTAAAGTGGAGTAAATTAACAGGACAAAGTCAGA  
AAAAATAAAGATGCTGTAAGAAGGCCCCAGGCAGATCCAGCTTTATTAACCCCAAGGTCCCCAGTTGTTACTATA  
ATGGGCCATGTTGATCACGGGAAAACGACATTACTTGACAAATTTGAAAACTCAAGTGGCAGCAGTGGAACT  
GGAGGCATCACTCAGCACATTGGTGCCTTTCTTGCTCTCTGCTTCTGGGGAAAAGATAACTTTTCTTGATACT  
CCAGGACATGCTGCTTTCTCAGCAATGAGAGCCAGAGGTGCTCAGGTCACTGACATTGTTCGTATTGGTTGTAGCT  
GCAGATGATGGAGTGATGAAACAACTGTAGAATCTATTGAGCATGCCAAAGATGCACAGGTTCCATTATCCTT  
GCCGTAAATAAATGTGACAAAGCTGAGGCTGATCCTGAGAAAGTGAAAAAGAGCTGCTGGCTTACGATGTGGTA  
TGTGAAGATTATGGAGGTGATGTTCAAGCAGTGCCTGTCTCCGCACTTACGGGCGATAATCTGATGGCTTTGGCA  
GAAGCAACAGTTGCTCTTGAGAAATGTTAGAATTGAAAGCAGATCCCAATGGTCCAGTGAAGGAACAGTAATA  
GAGTCTTTCACAGACAAAGGAAGAGGTCTTGTTACTACAGCTATAATTCAAAGAGGAACTTTAAGAAAAGGCTCT  
GTTCTGGTTGCTGGAAAATGTTGGGCAAAGTACGCTTAATGTTTGATGAAAATGGAAAAACAATTGATGAGGCC  
TATCCCAGCATGCCAGTGGGAATTACAGGCTGGAGAGACCTTCCTTCTGCAGGAGAAGAAATCTTGAAGTAGAA  
TCTGAGCCAAGGGCACGTGAAGTTGTTGACTGGAGGAAATATGAACAAGAACAGGAGAAAGGTCAGGAGGATCTG  
AAAATAATAGAAGAAAAGCGAAAGGAACACAAAGAAGCACATCAGAAAGCCCGTGAGAAGTATGGCCATCTACTG  
TGGAAGAAGAGATCAATTCTACGGTTTTTAGAAAGAAAAGAACAAATACCCTTAAAGCCAAAAGAGAAAAGGGAA  
AGAGATTCAAATGTACTTTCTGTGATTATTAAGGTGATGTTGATGGTTCTGTTGAGGCCATTTTGAACATTATA  
GATACCTATGATGCTTCACACGAGTGTGAAGTAGAATTAGTACATTTTGGAGTGGGTGATATAAGTGCAAATGAT  
GTTAACCTTGCTGAAACATTTGATGGTGTATATATGGCTTTAATGTGAATGCAGGCAATGTTATCCAACAGTCA  
GCTGCAAAAAAAGGAGTAAAAATTAACTTCACAAAATAATTTACCGTCTTGTTGAAGATTTGCAAGAGGAACTG  
AGCAGCAGATTACCTGTGCTGTGGAAGAGCACCCAGTAGGTGAGGCATCTATACTAGCTACCTTCTCTGTAACA  
GAAGGGAAAGAAAAAGTTTCTGTGGCTGGCTGCAGAGTCCAAAAGGGACAGTTAGAAAAACAAAAAAATTTAAA  
CTAACCCGTAATGGACATGTAATTTGGAAGGGCTCATTAACTCATTGAAACACCATAAAGATGACATTTCAATT  
GTCAAAACGGGAATGGATTGTGGTCTCAGTTTAGATGAAGACAATATGGAATTTCAAGTGGGAGACAGAATTGTT  
TGTTATGAAGAAAAGCAAATTCAGCCAAGACTTCTTGGGATCCAGGATTTTAAATTACATTAAAAATGTAAAT  
AACTCA

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**FIGURE 752**

MNQKLLKLENLLRFHTIYRQLHSLCQRRALRQWRHGFSSAYPVWTAQLCAWPWPPTDVLNGAALSQYRLLVTKKEE  
GPWKSQLSSTKSKKVVEVWIGMTIEELARAMEKNTDYVYEALLNTDIDIDSLEADSHLDEVWIKVITKAGMKLK  
WSKLGQDKVRKNKDAVRRPQADPALLTPRSPVVTIMGHVDHGKTTLLDKFRKTQVAAVETGGITQHIGAFVLSLP  
SGEKITFLDTPGHAAF SAMRARGAQVTDIVVLVVAADDGVMKQTVESIQHAKDAQVP IILAVNKCDKAEADPEKV  
KKELLAYDVVCEDYGGDVQAVPVSA LTGDNLMALAEATVALAEMLELKADPNPVEGTVIESFTDKGRGLVTTAI  
IQRGTLRKGSVLVAGKCWAKVRLMFDENGKTIDEAYPSMPVGITGWRDLP SAGEEILEVESEPRAREVVDWRKYE  
QE QEKQEDLKIIEEKRKEHKEAHQKAREKYGHLLWKKRSILRFLEKKEQIPLKPKEKRERDSNVLSV IIKGDVD  
GSVEAILNIIDTYDASHECELELVHFGVGD ISANDVNLAETFDGVIYGFNVNAGNVIQQSAAKKGVKIKLHKI IY  
RLVEDLQEELSSRLPCAVEEHPVGEASILATFSVTEGKKKVPVAGCRVQKGQLEKQKKFKLTRNGHVIWKGSITS  
LKHHKDDISIVKTGMDCGLSLDEDNMEFQVGDRIVCYEEKQIQAKTSWDPGF

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**FIGURE 753**

GCGTGCCGGGTGTCATGGCGGCCTGCAGGTACTGCTGCTCGTGCCTCCGGCTCCGGCCCCCTGAGCGATGGTCCTT  
TCCTTCTGCCACGGCGGGATCGGGCACTCAGGAGTTGCAAGTGCAGAGCACTATGGAGTAGCGCAGGGTCTCGAG  
CTGTGGCCGTGGACTTAGGCAACAGGAAATTAGAAATATCTTCTGGAAAGCTGGCCAGATTTGCAGATGGCTCTG  
CTGTAGTACAGTCAGGTGACACTGCAGTAATGGTGCAGCGGTGAGTAAACAAAACCTTCCCCCTTCCAGTTTA  
TGCCTTTGGTGGTTGACTACAGACAAAAGCTGCTGCAGCAGGTAGAATTTCCACAAACTATCTGAGAAGAGAGA  
TTGGTACTTCTGATAAAGAAATTCTAACAAGTCGAATAATAGATCGTTCAATTAGACCGCTCTTTCCAGCTGGCT  
ACTTCTATGATACACAGGTTCTGTGTAATCTGTTAGCAGTAGATGGTGTAAATGAGCCTGATGTCTAGCAATTA  
ATGGCGCTTCCGTAGCCCTCTCATTATCAGATATTCCCTTGGAAATGGACCTGTTGGGGCAGTACGAATAGGAATAA  
TTGATGGAGAATATGTTGTTAACCACAAGAAAAGAAATGTCTTCTAGTACTTTAAATTTAGTGGTTGCTGGAG  
CACCTAAAAGTCAGATTGTCATGTTGGAAGCCTCTGCAGAGAACATTTTACAGCAGGACTTTTGCCATGCTATCA  
AAGTGGGAGTGAAATATACCCAACAAATAATTCAGGGCATTGAGCAGTTGGTAAAAGAAACTGGTGTACCAAGA  
GGACACCTCAGAAGTTATTTACCCCTTCGCCAGAGATTGTGAAATATACTCATAAACTTGCTATGGAGAGACTCT  
ATGCAGTTTTTACAGATTACGAGCATGACAAAGTTTCCAGAGATGAAGCTGTAAACAAAATAAGATTAGATACGG  
AGGAACAACTAAAAGAAAAATTTCCAGAAGCCGATCCATATGAAATAATAGAATCCTTCAATGTTGTTGCAAAGG  
AAGTTTTTAGAAGTATTGTTTTGAATGAATACAAAAGGTGCGATGGTGGGATTTGACTTCACTTAGGAATGTAA  
GTTGTGAGGTAGATATGTTTAAACCCCTTCATGGATCAGCATTATTTCAAAGAGGACAAACACAGGTGCTTTGTA  
CCGTTACATTTGATTCAATTAGAATCTGGTATTAAGTCAGATCAAGTTATAACAGCTATAAATGGGATAAAAGATA  
AAAATTTTCATGCTGCACTACGAGTTTCTCCTTATGCAACTAATGAAATTGGCAAAGTCAGTGGTTTAAATAGAA  
GAGAACTTGGGCATGGTGTCTTGTCTGAGAAAGCTTTGTATCCTGTTATTCCCCGAGATTTTCTTTTACCATAA  
GAGTTACATCTGAAGTCCTAGAGTCAAATGGGTCTCTTCTATGGCATCTGCATGTGGCGGAAGTTTAGCATTAA  
TGGATTACAGGGTTCCAATTTCTCTGCTGTTGCAGGCGTAGCAATAGGATTGGTCACCAAAACCGATCCTGAGA  
AGGGTGAAATAGAAGATTATCGTTTGTCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTCA  
AAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCTGGAATACCAATAAAAAATTG  
TGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAC  
CTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAAAAGTTCAGGTTCCATTATCAAAACGAGCAAAATTTG  
TTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAAACAGGTGTAATATTAGTCAGGTGGATGAAGAAA  
CGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGATG  
ATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAAATGG  
TAAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTTGATCAACGAAAGATTAAACATCCTA  
CTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATGA  
GGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACCTTTGAATGACAGAAGTAGTATTGTAA  
TGGGAGAACCTATTTACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTTTAAAGAGAATTCTAGAATTCTATT  
TTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAAT  
ACATTTTAATTATTTGTACTAAAATGCTCATTACATGTGCCATTTTTTTTAAATTCGAGTAACCCATATTTGTTTA  
ATTGTATTTACATTATAAATCAAGAAATATTTATTATTAAAAAGTAAGTCATTTATACATCTTAGAAAAAATTACA  
TAGTTTTGTTTTTACAATTCTGAAATATATGAAAACTTAGATAGAATATGTCATATGTTATTATAACAGATCTC  
TTCTACATCTTATTTTTCTTCTTTGTATACAGTAGTGACAGTTTACCTTCAGTCATCCTACAGGTCACCTCTGT  
GCCCCAACAACTTTACTTGCCTACAACGGTTTACAAAAGTGAACAGGCCATATTCAAAGCCAGTGCCATTTCTTC  
AGAAGTGTAAACAGATATAGTGAGTTGAGGGAGCTAATCTGATACACTTTTGATAATATAATGCCTTTCAAATTA  
GTTACCAAAATCATAAACAGAGTGGAATAAATATAAATGAGATTCTAACTAGGATGAATGTGGTAGTAATGATGTA  
TATTTTTCAAATTTACCTAAACAGAAAGATTATTGGCTAAGGCAGGCGGATCATGAGATCAGGAGATCGAGACCA  
TCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAGTGCAAAAATTAGCCGGGCGTGGTGGCGCATGCCTGTA  
ATCCTAGCTACTCAGGAGGCTGAGGCAGAAAGATCACTTCAACCCAGGAGGTGGAGGTTGTAGTGAGCCGAGATT  
GCGCCATTGCACTCCAGCTCAGGCAACAAGAGCAAAACTCCGTCTC

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**FIGURE 754**

MAACRYCCSCLRLRPLSDGPFLLPRRDRAITQLQVRALWSSAGSRAVAVDLGNRKLEISSGKLARFADGSAVVQS  
GDTAVMVTAVSKTKPSQFMPLVVDYRQKAAAAGRIPTNYLRREIGTSDKEILTSRIIDRSIRPLFPAGYFYDT  
QVLCNLLAVDGVNEPDVLAINGASVALSLSDIPWNGPVGAVRIGIIDGEYVVPTRKEMSSSTLNLVVAGAPKSQ  
IVMLEASAENILQQDFCHAIKVGKYTQQIIQGIQQLVKETGVTKRTPQKLFTPSPKIVKYTHKLAMERLYAVFT  
DYEHDKVSREAVNKRDLTEEQLKEKFPEADPYEIIIESFNVVAKEVFRSIVLNEYKRC DGRDLTSLRNVSCVD  
MFKTLHGSALFQRGQTQVLCTVTFDSLESIGKSDQVITAINGIKDKNFMLHYEFPPYATNEIGKVTGLNRRELGH  
GALAEKALYPVIPRDFPFTIRVTSEVLESNGSSSMASACGGSALMDSGVPISSAVAGVAIGLVTKTDPEKGEIE  
DYRLTDLGIEDYNGDMDFKIAGTNKGITALQADIKLPGIPIKIVMEAIQQASVAKKEILQIMNKTISKPRASR  
KENGPPVETVQVPLSKRAKFGPGGYNLKKLQAETGVTISQVDEETFSVFAPTPSAMHEARDFITEICKDDQEQQ  
LEFGAVYTATITEIRDTGVMVKLYPNMTAVLLHNTQLDQRKIKHPTALGLEVGQEIQVKYFGRDPADGRMRLSRK  
VLQSPATTVVRTLNDRSSIVMGEPISQSSNSQ

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**FIGURE 755**

GACAAGATGGCCACACCGGCGGTACCAGCAAGTGCTCCTCCGGCCACGCCAGCCCCAGTCCCGGCGGCGGTCCCA  
GCCTCTGCCCCAGCCTCAGTTCCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTTCCCGCTGCGGCTCCAGCC  
TCATCCTCAGACCCTGCGGCAGCATCGGCTACAAC TGCGGCTCCTGGCCAGACCCCGGCCTCAGCGCAAGCTCCA  
GCGCAGACCCCAGCGCCCGCTCTGCCTGGTCTGCTCTTCCAGGGCCCTTCCCGGCGGCGCGGTGGTCAGGCTG  
CACCCAGTCATTTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTGCTGCCCAGATTATCGGGACC  
CTGTTGGGAAC TGTCGACAAACACTCAGTGGAGGTCACCAATTGCTTTTCAGTGCCGCACAATGAGTCAGAAGAT  
GAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAACTGCATAAAAAAGTTTCTCCAAATGAGCTCATC  
CTGGGCTGGTACGCTACAGGCCATGACATCACAGAGCACTCTGTGCTGATCCATGAGTACTACAGCCGAGAGGCC  
CCCAACCCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGCATGAGCATCAAAGCCTATGTCAGCACT  
TTAATGGGTGTCCCTGGGAGGACCATGGGAGTGATGTTTACACCTCTGACAGTGAAATACGCATACTATGACACT  
GAACGCATCGGAGTTGAGCTGATCATGAAGACCTGCTTTAGCCCCAACAGAGTGATTGGACTCTTAAGTGACTTG  
CAGCAAGTAGGAGGGGCATCAGCTCGCATCCAGGATGCCCTGAGTACAGTGTTGCAATATGCAGAGGATGTACTG  
TCTGGAAAGGTGTCAGCTGACAATACTGTGGGCGCTTCCCTGATGAGCCTGGTTAACCGAGTACCGAAAATAGTT  
CCCGATGACTTTGAGACCATGCTCAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACA  
CAGTCACAGATTGCCCTCAATGAAAACTTGTAACCTGTGAATGGACCCCAAGCAGTACACTTGCTGGTCTAGG  
TATTAACCCCAAGGACTCAGAAGTGAAGGAGAAATGGGTTTTTTGTGGTCTTGAGTCACACTGAGATAGTCAGTTG  
TGTGTGACTCTAATAAACGGAGCCTACCTTTTGT

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**FIGURE 756**

MATPAVPASAPPATPAPVPAAVPASAPASVPAPTPAPAAAPVPAAPASSSDPAAASATTAAPGQTPASAQAPAQ  
TPAPALPGPALPGFFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFSVPHNESEDEV  
AVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGRMSIKAYVSTLM  
GVPGRTMGVMFTPLTVKYAYYDTERIGVELIMKTCFSPNRVIGLLSDLQQVGGASARIQDALSTVLQYAEDVLSG  
KVSADNTVGRFLMSLVNRVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIALNEKLVNL

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**FIGURE 757**

GTGGAGACTCGATTGTTGATGACAGCGGAAGAATGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCA  
ACCCTTTGGCCCCTGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACT  
TCAGGAACTTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGC  
CAAGGGAGTACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCTAAGCTACGCC  
AACAAAGAAATTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGGTCGTGCCAAGGAACGGAGAGATGGAGTGA  
ACAAAGATTATGAAGAAACCGAGCTTATCAACACCACAGCTAACTACAGGGCTGTTGGCCCCACTACTAAGGCGG  
ACAAATCAGCTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCC  
ATTTGGTGAAAGGCTTGGATTTTGTCTCTGCTTCAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAG  
AGGAACTGATGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAACAC  
GTCTGGGCGCAATGTTTACCGAGTGCTTTTTAAGAACAAGCATATAAGCGGAATGAGTTGTTCTGCCGGGCGG  
CATGGCCTATGTGGTAGGCCTGGATGATGAGTAAGCTGACACAGATATCCCCACCCTCTTATCCGCAGCAAGGT  
TGACTGCCCCACCATGGAGGCCAGACCATACTGACCACAAATGATATTGTCATTAGCAAGCTTACCCAGTTGCT  
TTCATACCTGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACC  
TGCTGAGGCTGACAGGAGTATTTTCGAAGACATTGGGGATTATACACCCTCCACAATCAAGACACCTTGGGACAA  
GGAGCGGGAGAGATATCGGGAACGGGAGCGTGATCAGGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGA  
GATCAGGAGCGAGAACGAGATCGGGAACGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCA  
AAAGTACATGATGAGTCCGTGGACGTTGACAAAGGACCTGGGTCTGGCCAAGGAGTTGATCAAGTCCATCAATGAA  
AAGTTTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAAATTGCAGAAGACAAAAGCAGCTGAGAGAT  
TTCTTTGGCATGTCCAACAGTTATGCAGAGTGCTATCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAG  
GAGGTGGATTATAGCAAAATGGACCAGGGTAACAAGAAGAGAACCTTAAGCCGTTGGGACTTTGATACCCAGGAA  
GACTACAGCGAGTATATGAACAACAAGAGGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAA  
GGGCGGAAAACCAGACGCTTCAAGGAAACCAATGACAAAGCAGCGCTCGATTGCCAGTGGAAGATTAGTGCAATC  
ATTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAGACCAAATACTAA

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**FIGURE 758**

MPERDSEPF SNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEDPAARRR  
KKKSY YAKLRQQEIERERELA EKYRGRAKERRDGVNKDY EETELINTTANYRAVGPTTKADKSAAEKRRQLIQES  
KFLGGDMEH THLVKGLDFALLQVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRVLFKNKH  
ISGMS CSCRAAWPMW



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**FIGURE 759**

ATGCCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG  
GACCGCGACAAGCCAGCCAGATCCGCTTCAGCAACATTTCCGCCGCCAAAGCGGTTGCTGATGCTATTAGAACA  
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAAAGGTGATGTAACCATTACAAATGATGGTGCT  
ACCATTTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGTCTAAGGCTCAAGATATA  
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG  
AAAGGGATTTCATCCAACCATCATTTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC  
ATGTCTCGACCTGTGGAACTGAGTGACAGAGAACTTTGTTAAATAGTGCAACCACTTCACTGAACTCAAAGGTG  
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC  
ACCAGTGTAGATCTTAGAGATATTAAAATAGTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA  
GGGCTGGTTCTCACCCAAAAGTGTCAAATTTCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTCAG  
TTTTGCTTATCTGCTCCCAAAACAGACATGGATAATCAAATAGTGGTTTCTGACTATGCCAGATGGACCGAGTG  
CTGCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAACAGGATGTAATGTCCTTCTCATA  
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCAATTACACTTTCTGAATAAAATGAAGATCATGGTGATT  
AAGGATATTGAAAGAGAAGACATTGAATTCATTTGTAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA  
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACCTGCTCAAG  
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTCTGTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT  
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTCACGAACACTGAGTGGTATGGAATCCTACTGC  
GTTTCGTGCTTTTGCAGATGCTATGGAGGTCATTCCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTTCT  
ACAGTAACAGAACTAAGAAACCGGCATGCCAGGGAGAAAAAACTGCAGGCATTAATGTCCGAAAGGGTGGTATT  
TCCAACATTTTGGAGGAACTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAAACT  
GTTTCGGAGCATTCTGAAAATAGATGATGTGGTAAACACTCGATAATCTGGATAACTGACTAGCACCATTATGATC  
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTTGGTGTTCCTTGTTTGGGAAGATTATTTCTCTGAATTTCT  
GGGCTTGGTCTTCCAGTTGGCATTTCCTGAAGTTGTATTGAAACAATTTAATGAAAATATTAAATATTTGGTTT  
CAAAAGGCAGATTTATCTTCTCCAACATTCTGTTATTTCTGATACTTTTGAAAACTAATAAAAACTAATAAAA  
GAAGCGTA

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**FIGURE 760**

MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIRTSLGPKGMDKMIQDGKGDVTITNDGA  
TILKQMQVLHPAARMLVELSKAQDIEAGDGTTSVVIIAGSLLDSC TKLLQKGIHPTIISESFQKALEKGEIILTD  
MSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAV MKVIDPATATSVDLRDIKIVKKLGGTIDDCELVE  
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQM DRVLREERAYILNLVKQIKKTGCNVLLI  
QKSILRDALSDLALHFLNKMIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEVNLNGSGKLLK  
ITGCASPGKTVTIVVRGSNKLVEEAEERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTLSGMESYC  
VRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALT LATET  
VRSILKIDDVVNTR

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**FIGURE 761A**

AGGAAGGAAGGAGCAGTTGGTTCAATCTCTGGTAATCTATGCCAGCAATTATGACAATGTTAGCAGACCATGCAG  
CTCGTCAGCTGCTTGATTTTCAGCCAAAACTGGATATCAACTTATTAGATAATGTGGTGAATTGCTTATACCATG  
GAGAAGGAGCCCAGCAAAGAATGGCTCAAGAAGTACTGACACATTTAAAGGAGCATCCTGATGCTTGGACAAGAG  
TCGACACAATTTTGGAAATTTTCTCAGAATATGAATACGAAATACTATGGACTACAAATTTTGGAAAATGTGATAA  
AAACAAGGTGGAAGATTCTTCCAAGGAACAGTGCGAAGGAATAAAAAATACGTTGTTGGCCTCATTATCAAGA  
CGTCATCTGACCCAACCTTGTTAGAGAAAAGAAAGGTGTATATCGGAAAATTAAATATGATCCTTGTTCAGATAC  
TGAAACAAGAATGGCCCAAACATTGGCCAACCTTTATCAGTGATATTGTTGGAGCAAGTAGGACCAGCGAAAAGTC  
TCTGTCAAAATAATATGGTGATTCTTAAACTCTTGAGTGAAGAAGTATTTGATTTCTCTAGTGGACAGATAACCC  
AAGTCAAATCTAAGCATTAAAAAGACAGCATGTGCAATGAATTCTCACAGATATTTCAACTGTGTGAGTTTGTA  
TGAAAATTTCTCAAATGCTCCACTTGTACATGCAACCTTGGAACATTGCTCAGATTTCTGAACTGGATTCCCC  
TGGGATATATTTTGGAGACCAAATTAATCAGCACATTGATTTATAAGTTCCCTGAATGTTCCAATGTTTCGAAATG  
TCTCTCTGAAGTGCCTCACTGAGATTGCTGGTGTGAGTGTAAAGCCAATATGAAGAACAATTTGTAACACTATTTA  
CTCTGACAATGATGCAACTAAAGCAGATGCTTCCCTTTAAATACCAATATTCGACTTGCCTACTCAAATGGAAAAG  
ATGATGAACAGAACCTTCAATCAAATCTCAGTTTGTCTCTGACCTTTCTTAAGGAACATGATCAACTTATAG  
AAAAAGATTAAATCTCAGGGAACTCTTATGGAGGCCCTTCATTATATGTTGTTGGTATCTGAAGTAGAAGAAA  
CTGAAATCTTTAAATTTGTCTTGAATACTGGAATCATTGGCTGCTGAACTCTATAGAGAGAGTCCATTCTCTA  
CATCTGCCCTCTCCGTTGCTTTCTGGAAGTCAACATTTTGATGTTCCCTCCAGGAGACAGCTATATTTGCCCATGT  
TATTCAGGTCCGTTTATTAATGGTTAGTCAATGGCTAAACCAGAGGAAGTATTGGTTGTAGAGAATGATCAAG  
GAGAAGTTGTGAGAGAATTCATGAAGGATACAGATTCCATAAATTTGTATAAGAATATGAGGGAAACATTGGTTT  
ATCTTACTCATCTGGATTATGTAGATACAGAAAGAATAATGACAGAGAAGCTTCACAATCAAGTGAATGGTACAG  
AGTGGTCATGGAAAATTTGAATACATTGTGTTGGGCAATAGGCTCCATTAGTGGAGCAATGCATGAAGAGGACG  
AAAAACGATTTCTTGTACTGTTATAAAGGATCTATTAGGATTATGTGAACAGAAAAGAGGCAAAGATAATAAG  
CTATTATTGCATCAAATATCATGTACATAGTAGGTCAATACCCACGTTTTTTGAGAGCTCACTGGAAATTTCTGA  
AGACTGTAGTTAAACAAGCTGTTTGAATTCATGCATGAGACCCATGATGGAGTCCAGGATATGGCTTGTGATACTT  
TCATTTAAATAGCCCAAAAATGCCGCAGGCATTTTCGTTCCAGGTTCCAGGTTGGAGAAGTGATGCCATTTATTGATG  
AAATTTTGAACAACATTAACACTATTATTTGTGATCTTCAGCCTCAACAGGTTTCATACGTTTTTATGAAGCTGTGG  
GGTACATGATTGGTGCACAAACAGATCAAACAGTACAAGAGCACTTGATAGAAAAGTACATGTTACTCCCTAATC  
AAGTGTGGGATAGTATAATCCAGCAGGCAACCAAAAATGTGGATATACTGAAAGATCCTGAAACAGTCAAGCAGC  
TTGGTAGCATTTTGAACAACAATGTGAGAGCCTGCAAAGCTGTTGGACACCCCTTTGTAATTCAGCTTGGAAAGAA  
TTTATTTAGATATGCTTAATGTATACAAGTGCCTCAGTGAATAATTTCTGCAGCTATCCAAGCTAATGGTGAAA  
TGTTTACAAAGCAACCATTGATTAGAAGTATGCGAACTGTAAAAAGGGAACTTTAAAGTTAATATCTGGTTGGG  
TGAGCCGATCCAATGATCCACAGATGGTGCCTGAAAAATTTGTTCCCCCTCTGTTGGATGCAGTTCTCATTGATT  
ATCAGAGAAATGTCCAGCTGCTAGAGAACCAGAAAGTGCCTTAGTACTATGGCCATAATTGTCAACAAGTTAGGGG  
GACATATAACAGCTGAAATACCTCAAATATTTGATGCTGTTTTTGAATGCACATTGAATATGATAAATAAGGACT  
TTGAAGAATATCCTGAACATAGAACGAACCTTTTCTTACTACTTCAGGCTGTCAATTCTCATTGTTTCCCAGCAT  
TCCTTGCTATTCCACCTACACAGTTTAAACTTGTTTTGGATTCCATCATTGCGGCTTTCAAACATACTATGAGGA  
ATGTCGCAGATACGGGCTTACAGATACTTTTTACACTCTTACAAAATGTTGCACAAGAAGAAGCTGCAGCTCAGA  
GTTTTTATCAAACCTTATTTTTGTGATATTCTCCAGCATATCTTTCTGTTGTGACAGACACTTCACATACTGCTG  
GTTTAAACAATGCATGCATCAATTCTTGATATATGTTTAAATTTGGTTGAAGAAGGAAAAATAAGTACATCATTA  
ATCCTGGAAAATCCAGTTAAACAACCAATCTTTCTTCAGGAATATGTGGCTAATCTCCTTAAGTCGGCCTTCCCTC  
ACCTACAAGATGCTCAAGTAAAGCTCTTTGTGACAGGGCTTTTCAGCTTAAATCAAGATATTCCTGCTTTCAAGG  
AACATTTAAGAGATTTCTAGTTCAAATAAAGGAATTTGCAGGTGAAGACACTTCTGATTTGTTTTTGGAAAGAGA  
GAGAAAATAGCCCTACGGCAGGCTGATGAAGAGAAACATAAACGTCAAATGTCTGTCCCTGGCATCTTTAATCCAC  
ATGAGATTCCAGAAGAAATGTGTGATTAAATCCAAATTCATGCTGTTTTTTTTCTCTGCAACTCCGTTAGCAGA  
GGAAAACAGCATGTGGGTATTTGTGACCAAAAATGATGCCAATTTGTAAATTTAAATGTACCTAGTGGCCCTTT  
TTCTTATGTGTTTTTTGTATAAGAAATTTCTGTGAAATATCCTTCCATTGTTTAAAGCTTTTGTGTTTGGTCATC  
TTTATTTAGTTTGCATGAAGTTGAAAATTAAGGCATTTTAAAAATTTTACTTCATGCCCATTTTTGTGGCTGGG  
CTGGGGGGAGGAGGCAAATTTGAACATATACTTGAATTTCTAATGCAAATTTATACAATTTTTCTCTGTAA

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**FIGURE 761B**

ACAATACCAATTTTAAATTAGGGAGCATTTTCCTTCTAGTCTATTTTCAGCCTAGAAGAAAAGATAATGAGTAAAA  
CAAATTGCGTTGTTTAAAGGATTATAGTGCTGCATTGTCTGAAGTTAGCACCTCTTGGACTGAATCGTTTGTCTA  
GACTACATGTATTACAAAGTCTCTTTGGCAAGATTGCAGCAAGATCATGTGCATATCATCCCATTGTAAAGCGAC  
TTCAAAAATATGGGAACACAGTTAGTTATTTTACACAGTTCTTTTTGTTTTGTGTGTGTGTGCTGTCGCTTGT  
CGACAACAGCTTTTTGTTTTCTCAATGAGGAGTGTGCTCATTGTGAGCCTTCATTAACCTCGAAGTGAAATGG  
TTAAAAATATTTATCCTGTTAGAATAGGCTGCATCTTTTAACAACCTATTAAAAAACAAACAACTCTGGCTTT  
TGAGATGACTTATACTAATTTACATTGTTTACCAAGCTGTAGTGCTTTAAGAACACTACTTAAAAAGCAAATAA  
ACTTGGTTTACATTTAAAAAAA

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**FIGURE 762**

MPAINTMLADHAARQLLDIFSQKLDINLLDNVNCVLYHGEGAQQORMAQEVLTHLKEHPDAWTRVDTILEFSQNMNT  
KYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMIQILKQEWPKHWPTFI  
SDIVGASRTSESLCQNNMILKLLSEEVDFDFSSGQITQVKS KHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHAT  
LETLLRFLNWIPGLGYIFETKLISTLIYKFLNVPMFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMLQKQMLPL  
NTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHDQLIEKRLNLRETLMEALHYMLLVSEVEETEIFKICLEYWNH  
LAAELYRESPFSTSASPLLSGSQHFDVPPRRQLYLPMLFKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTS  
INLYKNMRETLVYLTHLDYVDTERIMTEKLHNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFVTVIKDLL  
GLCEQKRGKDNKAI IASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRHFV  
QVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAVGYMIGAQTQTVQEHLEKYMLLPNQVWDSIIQQATKN  
VDILKDPETVKQLGSILKTNVRACKAVGHPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRT  
VKRETLKLISGWVSRNDPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDA  
VFECTLMINKDFEYYPEHRTNFFLLQAVNSHCFFAFLAIPPTQFKLVLDSEI I WAFKHTMRNVADTGLQILFTL  
LQNVAQEEAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTSLNPGNPNVNNQIFLQ  
EYVANLLKSAPPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDFLEEREIALRQADEEKH  
KRQMSVPGIFNPHEIPEEMCD

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**FIGURE 763**

GGCGGCGGCAGCAGCTGCTTGGGCGCCGTGCGGTGGTGA CTGAGCTACGAGCCTGGCAGCAGGTGTGCGCCGAGC  
CCCGGCCTGGCCCGGCCCGCGTGCCTCCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGCTGAGCCCACTTCG  
GCCAGGACGATGGTTAAGTATTTCTGGGCCAGAGCGTGCTCCGGAGTTCCTGGGACCAAGTGTTGCGCGCCTTC  
TGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACCGGGAGGTGACCCCTGAC  
CAGAAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGAATGCCACGCTGGGCCAAGCAACTATTTCTGCC  
AATGTTGCTCACTCGGTGTACATCCTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC  
TGGAACATCAACCACGCCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGAACTCTGACAACAGCGGC  
TGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTTGGTGTCTCCAGAGCTGTCCAGGAATTTGGT  
CTTGCCCAGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGACTAAGCTGCAAGGCGAG  
GCCCCTTCCAAAACACTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAGAGGAGACGGCACTGGCAGCTACAGAG  
AAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAACAGTTTGTGTAGCCAGCCCAC  
CACCACCACAGCAACCCAGACAGCTAGGCTTAGCCCCCTCTGCCCTCCCTCCATTGTACTTTATCATTAAAAATCA  
ACTTCCA

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**FIGURE 764**

CTGACTCTCTGAGGCTCATTTCGAGTTGTTGAAATTGTCCCCGAGTTTTCAATCATGTCTGAACCAATCAGAG  
TCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTCAGTGTACAGTATTGGAAATGGATCTGTCTTTGGTA  
AAGATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAC  
TGCAAGACTGTGCCCTTCCCCTCCTGAAAGATGTCATCGCAACAGATAAAGAAGACGTTGCCCTCAAAGACCTGG  
ATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGA  
AAATCTTCAAATCCCAGGGTGCAGCCTTAGATAAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATC  
CAGCCAATACCAACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACTC  
GTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAAACTTGGTGTGACTGCTAATGATGTAAAGAATGTCA  
TTATCTGGGGAAACCATTCCTCGACTCAGTATCCAGATGTCAACCATGCCAAGGTGAAATTGCAAGGAAAGGAAG  
TTGGTGTATGAAGCTCTGAAAGATGACAGCTGGCTCAAGGGAGAATTTGTCACGACTGTGCAGCAGCGTGGCG  
CTGCTGTCAATCAAGGCTCGAAAACCTATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACA  
TCTGGTTTGGAAACCCAGAGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTTCCTG  
ATGATCTGCTCTACTCATTCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGGAAGGTCTCCCTATTAATG  
ATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAAGTACAGAAGAAAAAGAAAGTGCTTTTGAATTTCTTT  
CCTCTGCCTGACTAGACAATGATGTTACTAAATGCTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGT  
ACCAAATAATAATAATGCTATACTTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGA  
CAGGTTTGTGAATGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATG

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**FIGURE 765**

MSEPIRVLVTGAAGQIAYSLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMEIQDCALPLLKDVIATDKED  
VAFKDL DVAILVGSMPPREGMERKDLLKANVKIFKSQGAALDKYAKKSVKVI VVGNPANTNCLTASKSAPSIPKE  
NFSCLTRLDHNRKAQIALKLGV TANDVKNV I IWGNHSSTQYPDVNHAKVKLQGKEVGVYEALKDDSWLKGEFVT  
TVQQRGA AVIKARKLSSAMSAAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGV PDDLLYSFPVVIKNKTWK FV  
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA



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**FIGURE 766**

TCTTTTAAGTATACTCTCTACTTATTAAAAAAGTCCTTTCCACGCTACCTGCAGAGGGGTCCATACG  
GCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATG  
AAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCTCACTTAGGTGGCACC AATCTTGACTTCCAGATGGAA  
CAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTG  
GCAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGG  
GCCGTGCTAAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCGCTAAC  
CAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCATG  
GAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCC  
ATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATG  
CGTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATT  
GAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCT  
CCTGAGTTCACTGTTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTCCC  
TACTGAAGACGGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGT  
AGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAA  
ATAAACATCAGTTTCT

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**FIGURE 767**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFANQIQAAFREPRLLVVTDPRADHQPLMEASYVNLPTIALCNT  
DSPLHYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISCEHPWEVMPDLYFYRDPEEIEREEQAAAEKAVTKE  
EFQGEWTAPAPEFTVTQPEVADWSEGVQVPSVIPY

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**FIGURE 768**

GCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTACAAATGTCGGAGCCC  
TTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACACTCACTTAGGTGGCACCAATC  
TTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCT  
GGGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCGCTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCT  
TCTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCATGGAGGCATCTTATGTTAACCTACCTACCATTGC  
GCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGT  
GGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTGAACACCCATGGGA  
GGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGC  
AGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCCTGTTACTCAGCCTGAGGTTGC  
AGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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**FIGURE 769**

MSGALDVLQMKEEDVLKFLAAGTHLGSTNLDFQMEQYIYKRKSDGIYI INLKRTWEKLLASLLEPSLTRSRQPSG  
SHGFLWLLIPGLTTSLSORHLKLTYLP LLCVTQILLCAMWTLPSHATARELTQWV

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**FIGURE 770**

GGCCCAGCTGCTGAGAGGAGTTGCCTGAGAGTGACCTTTGCATCTGCCTGTCCAGCCAGCATGGAACCAAAGCGG  
ATCAGAGAGGGCTACCTTGTGAAGAAGGGGAGCGTGTTCAATACGTGGAAACCCATGTGGGTTGTATTGTTAGAA  
GATGGAATTGAATTCTATAAGAAGAAAAGTGACAACAGCCCCAAAGGAATGATCCCGCTGAAAGGGAGCACTCTG  
ACTAGCCCTTGTCAAGACTTTGGCAAAAGGATGTTTGTGTTTAAAGATCACTACGACCAAACAGCAGGACCCTTC  
TTCCAGGCAGCCTTCCTGGAGGAGAGAGATGCCTGGGTTCGGGATATCAAGAAGGCCATTAAATGCATTGAAGGA  
GGCCAGAAATTTGCCAGGAAATCTACCAGGAGGTCCATTGCGACTGCCAGAAACCATTTGACTTAGGTGCCTTATAT  
TTGTCCATGAAAGACACTGAAAAAGGAATAAAAGAACTGAATCTAGAGAAAGGACAAGAAGATTTTAACTACTGC  
TTCACAGGTAACGCGTCATTGATTGGCTGGTATCCAACCAGTCTGTTAGGAATCGCCAGGAAGGCCTCATGATT  
GCTTCATCGCTGCTCAATGAGGGGTATCTGCAGCCTGCTGGAGACATGTCCAAGAGTGCAGTGGATGGAAGTGCCT  
GAAAACCCCTTTCCTGGACAACCCTGATGCCTTCTACTACTTTCCAGACAGTGGGTCTTCTGTGAAGAGAATTCC  
AGTGATGATGATGTGATTCTGAAAGAAGAATTGAGAGGGGTGATTATCAAGCAGGGATGTTTACTGAAGCAGGGG  
CATAGAAGGAAAAACTGGAAAGTGAGGAAGTTTCACTTTGAGAGAAGACCCCTGCCTACCTGCACTACTATGACCCT  
GCTGGGGCAGAAAGATCCCCCTGGGAGCAATTCACCTTGAGAGGCTGTGTGGTGACTTCAGTGGAGAGCAACTCAAAT  
GGCAGGAAGAGTGAGGAAGAGAACCTTTTTGAGATCATCACAGCAGATGAAGTGCCTATTTCTTGCAAGCAGCC  
ACCCCCAAGGAGCGCACAGAGTGGATCAGAGCCATCCAGATGGCCTCCCGAAGTGGGAAGTAAAGAGACTCCTGC  
ATTCCCTCCTCCCCCTCCTGAGGGAAGCCCATGGACAAGCTCAGTCCAGGACCTGTCCACTTCTGTGACAAATCAAC  
GGGAAACAGCCCAGGGGTGGGAAGTTTTTCACTTGCAGGGGGTCTGAATGTAAGTCAACCATGTGGTGTGCAAGGT  
TCCCCTGCATTGTATTGCTCACTGCAGCCCTCTGCCCTATCCATGACCCCCAAGCAGATATAACAAGCTGTGC  
AGCCTCAGTAGGCTGCTTGCCTCTCCAGGCCTCAGGGCCTCTTCTGGAAAATGAAGAAATCAACTAGTAGATT  
CCTGAGGTCCCCCTAGCTTAAAAAATAAATACTGCCCATGATTCTAACACTCGCAGTAGTGATAGTGATC  
TAGTTGTTCTGTGTTGCTCTTCTTGGCTAAGTCTTGGCCTTCAGTTATCTTCAAATGTACCAGAACCTGAGCC  
AACGCCTCCCTGTGAACTGTTGCTGATCTGTAGTACAGTACCAGGAAGAAACCTCTTTTGTCTCTTTAGACAT  
CTTCTACTTGCTCTTGGCCTTGAGATCGTGTAAACAAAATGAAGGAGGGCTCTCTTCTTCTCTCTCATCTACTC  
AAAAACTTCCCGAGAGCAGTGGTGGTTTTGAGGGTTTTGACTTCTATTACTTTTGGCAGCCTGGAAAGTTGTGTC  
TTCTGGGAAAGAGACCTGGGGAGGCCAGGAGTAGCTGAGGGTCTTTCTGTGCCCTTAAACCGCCCAGAGGAGCC  
CTATTCCACTCTGGTTTTAGGCTGATCTGAGAGGGTCTCCCTTTGTTCTTTCTGGAGCATTCTCTAACGTTTA  
TTACAATTAGGAGGGGGACCCACATCTGTGAGATTCTGTTTCATTTGAGGTTTACAGAAAAAAGTGGCCA  
GATGTGTTCCCCCATGGGTGAGAGGCCTGGGCAACTGCCTGGTGAATGTGTCTTGCGGCAGCTGCAGCAAGTGG  
AGGGGCTGAACTACTGGCCAGCTCACTGGATGATGGGTAAATACAACAAGTGCCTGTAAGGACTCAGAGCCACA  
CAGAACTTCTGAGAGGGGCTGTAGCATTGCGCAGCATCTTCAGTTCTCCAGTAAATGATATTGCGTTCTGTCCCT  
CAGCTTTAAGCACAAGTAGCAGCAGCTCCTGCTTGAAGTTCTGAGGGCATCATGGCCCTATGATTAACCAGAGTGA  
TCTAACCTAGACTAAAATTGGGAACTTATTTGCAATTTTTGACCCTGACCACTAAGTAGTGATTCTTCTCCAAA  
TTGAGAAAGACAGCACCCATTGAAGCAGATATGTGTGTGAAAGTATATTTTCAATTCCAGATTTTTAATTTTAA  
GGCTCCAGGAAAGAAAGGAGAGTAGAACATTTTTCTCATTTTTATCAAAATCCTCTCTTGGCCTCCCTCAATTCCC  
CTGTAACATTCTGAAAGCTGTTCCCACTCCCAGATGGTTTTATCAATAGCCTAGAGGTAAAGAACTGTCTTTTTC  
TCTGATTCTTTAATAAATTATCTTTATAGAATATGCACAAGTTTTTCTACACTCAGTGTTAAAGTATTTATTAAT  
GGGAAGTCAACTTAATGTTTTGAAATAAATATATGACTCTGTTTAAAT

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**FIGURE 771**

CTTTCGGGAGACTGGAGTCGAAGGCCGTGAGGTATTTTCTAAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXAACCCCGGAGGAGGGTGAGGAGCAGAGCTGGCCATAATGGCAGGTGAAGAAATTAATGAAGACTAT  
CCAGTAGAAATTCACGAGTATTTGTCAGCGTTTGAGAATTCCATTGGTGCTGTGGATGAGATGCTGAAGACCATG  
ATGTCTGTTTCTAGAAATGAGTTGTTGCAGAAGTTGGATCCACTTGAACAAGCAAAAGTGGATTTGGTTTCTGCA  
TACACATTAAATTCAATGTTTGGGTTTATTTGGCAACCCAAGGAGTTAATCCTAAGGAACATCCAGTAAACAG  
GAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATAACAGACAAGAAAAAGGCTGGCAAGCTGGAC  
AGAGGTGCAGCTTCAAGATTTGTAAAAAATGCCCTCTGGGAACCAAAATCGAAAAATGCATCAAAAGTTGCCAAT  
AAAGGAAAAAGTAAAAGTTAACTTTTTGGTTTTGATGTACACATATTCAAAAAGTACATTAATATGTAAATTCAC  
AGTAAATATGTAAAGCTAAATACTTTCCTCTCCAAAGATCATTATCTTTATTGATTAGCACTGAGGATTTTAACA  
TTGTGATATATTATATATTTATAATTTACCATCTCTTGATGAGACTCTTATTTCTTTATATAGGTCAGTCTTGCA  
AGTACCATTTTATAAGCAGCTGTGAAATTTAAGTGAAATGTTCTTTGTAAACATTTGTACTATTTTAAATGAATA  
ATGACCTTATGAAGTATGCTATCTGTAGGCTGAAATTATAGGTACATCTGTTTTCACTATATGATATTAAGAAAG  
CGTGAAATGACTTAAATGTTTCAATTTTTTCTGTATAGATACTTTATCATGTTTTCATGATTTTAGGAATTACTGC  
TTTGTGATATTCAAAGTGTGAACTAAACTTTATGGTTGTACTTTAATTCTTGGCATGTTGCCCTCTATGTCCC  
ATTTAAATAAAATACATTCTCATTAACTTTAGATGGGAAATAAGGTTGTATGTTGATGGATGAATTTTGGCATG  
ATGACTGTACTCTCAATAAAGGCTGAAAAATGTTGT

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**FIGURE 772**

CCTTCACTTCGCCCTCCAGCTGCTGCAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGA  
GCGGTGGCGGCGGCCCGCTCAGGAGACCACCAGATTCCCCCTTCCC GCGGCCTCGCCATGGCGACCCACGGAC  
AGACTTGC GCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACA  
AAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTTCAACGTCCG  
GTTCACTCTAATACAGACACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGA  
CTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTT  
TGAAACTGACATTTGATACTACCTTCTACCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGAC  
TGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGA  
AGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATA  
TCAGTTGGATCCCCTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGAC  
TC

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**FIGURE 773**

AGCTGCTGCAGCTGCAGCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCC  
GCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGACAGACTTGCGCGCGTCCA  
ATGTGTATTCCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGG  
TTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGAC  
ACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTACAGAAAAGTGG  
AACACTGATAAAGTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAACTGACATTTGAT  
ACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTACAAGAGGGAGTGATAAACCTTGGT  
TGTGATGTTGACTTTGATTTTGTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT  
GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG  
GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGAT  
CTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAG  
TTGGATCCCCTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG  
AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG  
CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAATGGATATCAGAAGATTTGGCCTTAAT  
ATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGA  
GCTGTATTTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGAATTGGTTATCTAGTTACCAATGCTG  
CAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGA  
CCTTTATGAAAA



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**FIGURE 774**

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFGLVKLDVTKSCSGVEFSTSGSSNTDTGKVTGTLETYKW  
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDTTFSPNTGKKSGKIKSYKRECINLGCDVDFDFAGPAIHG  
SAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVGyRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGTN  
CTREGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA

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**FIGURE 775**

ATGGTCTGACTTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTT  
GTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAATCAAGTCTT  
ACAAGAGGGAGTGATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTG  
TCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATA  
ACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGAT  
CAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTC  
GTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCCTGCTTCCATTTCTGCTGGTGTGAAGCTTACACTCTCTG  
CTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCA  
GCTGAAAGAAACCTT

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**FIGURE 776**

GAGAAAACGGCCGGGCGGCGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGGGCGGACGATGGACAGC  
CAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCAGGGTTTGTGAAGTGTGGATATGCAGGCTCTAACTTTCCA  
GAACACATCTTCCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAG  
GATCTTATGGTTGGTGTATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCATA  
GTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAACTTAATATAGATACCAGA  
AATTGTAAAATCTTACTCACAGAACCTCCTATGAACCCAACCAAAAACAGAGAGAAGATTGTAGAGGTAATGTTT  
GAACTTACCAGTTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACT  
GGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCCAGTATATGAAGGCTTTTCTCTCCCTCATCTT  
ACCAGGAGACTGGATATTGCTGGGAGGGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCC  
TTCAACCACTCTGCTGATTTTGAACCGTTTCGCATGATTAAAGAAAACTGTGTTACGTGGGATATAATATTGAG  
CAAGAGCAGAACTGGCCTTAGAAACACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAAA  
GTTGGGGGAGAGAGATTTGAAGCACCAGAAGCTTTATTTACGCCTCACTTGATCAATGTTGAAGGAGTTGGTGT  
GCTGAATTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAGATCTGAATTCTACAAACACATTGTGCTT  
TCTGGAGGTCTACTATGTATCTTGGCCTGCCATCACGGTTGGAACGAGAAGCTTAAACAGCTTTACTTAGAACGA  
GTTTTGAAGGTGATGTGAAAAAATTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGAAAGCACATG  
GTATTCCTGGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAATTTTGGATGACCCGACAAGAGTAC  
CAAGAAAAGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTTCGATAAACTCCAAAGCTTGTTCCTGCATA  
CCCGTAATGCTTTCTTTTTCTTTTATTGCCAATCTTTGAACTCATTCAACTCCAGGACATGGAAGAGGCCTCTC  
TCTGCCCTTTGACTGGAAAGGTCAAGTTTTATTCTGGTGTCTTGGGGAAGCTTTGTTAAATTTTTGTTAATGTGG  
GTAAATCTGAGTTTAATTCAACTGCTTCCCTACATAGACTAGAGGGCTAAGGATTCTGTCTGCTGCTTTGTTTCT  
TCTAAGTAGGCATTTAGATCATTCTATAGGCTTCCCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC  
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAAAAACAAAAAACTTTAACAGGAGCTTTTACATATTACTG  
GGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCCCTTTAGGGCATTTCCTCTGTAATGTGGCGCTTTC  
AACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTCTCCTGTGAACCTTCTTAGGGAAATGTTAGGTTCAAGACT  
AAAGTGTTTTGGGTGGGTTTTGTTGCGGGGGGAGGGTAACAAATGGGTGGTCTTCTGATTTTTATTTTGGAGTT  
TTGTCAACTGGAGTACGTAGAGGAACCTTTATTTACAGTACTTTGATTTGGCAGGTTTTCTTCTACTTGTGCTCTG  
CCTGGAGCTGTTTCCATATGATATAAAAAGCAAGTGTAGTATTCATTACTATGTGGCTTAGGGATTTATTTGTT  
TTTTAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCCTTCAATGGAAAAGTAACATTTAAAAATCCT  
TTGGGTAATTGCAATTACAGATTTAAAAGAGCTTAAGATCTGGTGTGTTTTGTTAATGCTTCTGTTTATTCCAGAAG  
CATTAAAGTAACCCATTGCCAAGTATCATTCTTGCAAATTATCTTTTATATAACTGACCAGTGCTTAATAAAAC  
AAGCAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACT  
TGTTGCCAATTGGGTAATTTTCATTAGTTGTTTTGTTTGTGTTTGAATTGAAACCTGGAAATACAGTAAATTTGA  
CTGTTTAAATGTTGGCCAAAAAATCAAGATTTAATTTTTTATTTGTACTGAAAACTAATCATAACTGTTAA  
TTCTCAGCCATCTTTGAAGCTTGAAAGAAGAGTCTTTGGTATTTTGTAACGTTAGCAGACTTTCCTGCCAGTGT  
CAGAAAATCCTATTTATGAATCCTGTCGGTATTCCTTGGTATCTGAAAAAATACCAAATAGTACCATACATGAG  
TTATTTCTAAGTTTGAAAAATAAAAAGAAATTGCATCACACTAATTACAAAATA

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**FIGURE 777**

ATGGAGACACTTGTACAAGTGAATCTCTTTAGAAAGAGAGATTTACGCCAGGTACGTGGAACACAGTCTGAGCAG  
CACTGCACACCGTATCAAATCAGGTATCCTGTAGGAAGAGTACCTGGGGATGAAATCAACAAGTTCTTAGTGGA  
TCTTCTCATTTCTTAGAATGTAATGTGGTTGGATGTTTGAAATTGGTACGAAAGGGGAGAATCCTTTCCCCAA  
TTAGGAAAATGGGGAGTGGGGGCAGAGGAAATGAAGCCCAGGTTCTTCATCGGATGGAAGTTCTCTGGTCAGTGT  
ACACAGTTTGCTCTTGAGAGGACTGATGGCCTGGGATATGTTATTGATGGTCCTGAAAGGGATCTGCGTTTGAAT  
AGGTCAGAGAAGATGTTCTGGAAGTCTGGAGACTGGGATACGCTCCCTTCCCTACAGGCTCATTCATCCAGCGTT  
CTGGCAGTACCCCTCTGGTACCGCACAGACTTCAGGGGACCTTGAACAAGCTCCATTTTGTCTCCTGGAAGCTCAT  
TCCACCAGGTTTGAGTATGAGCTTACCACCTGGCTCCACCTTCTCCACCAACTACCAGTCCCTGGGCTCTGTCCA  
GGTGCCCGAGCTAAGACGCTCGGCCAGTCAGCAGCATGACCAGTATCTCTGCAGGGGCTGGGGGCTCTGGTTCCCA  
GATCTCCATGTCCCCCTCCACCAGCTTCTGGGGTGGCATGGGGTCTGGGGCCCTGGCCGTGGGGATGGCCAGGGT  
TCTGGCAGGATGGAAGACATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAATGACTGCCTGGCCTCCTACCTG  
GACAGAGTGAGGAGACTGGATACCAAGAATCGGAAGCTGGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGA  
CCCCAAGTCAGAGACTGGAGCCATTACTTCAAGACCGTGGAGGACCTGAGGGCTCAGATCTTCGCAATACTGTG  
GACAATGCCCCGATCGTTCTGCAAGTCGACAATGCCATCTTGCTGATGACTTTAGAGTCAAGTATGTGACAGAG  
CTGGCCATGCGCCAGTCTATGGAGAGCGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATGTCACTCGG  
CTGCAGCTGGAACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACGAAGAAGGGGAAATA  
AAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACTGTGGAGGTAGATATCCCCAAATCTCAGGACCTTGCC  
AAGCTCATGGCAGACATCTGGGCCCAATATGATGAGCTGGCTCGGAAGAGCCAAGAGGAGCTGGGCAAGTACTGG  
TCTCAGCAGATTGAGGAGAGTATCACAGTAGTCACCATGCAGTCCACCGAGATGGAGCAGTTCAACAGGATCCTG  
CTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTG  
AGCATCAGGGTCAAGCTGGAGGCTGAGATCGCCACCTACCACCACCTGCTGGAAGATACCACCACCGGCCGGATA  
GTGGATGGCAAAGTGGGGTCTGAGACCAACAACACCAAAGTTCTGAGACATTAA

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**FIGURE 778**

METLVQVNLFRKRDLRQVRGTQSEQHCTPYQIRYPVGRVPGDEINKFLVESSHFLVCNVVGCLEIGTKGENPFPQ  
LGKWGVGAEMKPRFFIGWKFSGQCTQFALERTDGLGYVIDGPERDLRLNRSEKMFWKSGDWDTLPSLQAHSSSV  
LAVPSGTAQTSGDLEQAPFCLLEAHSTRFEYELHHSLLHQLPVPGLCPGAQLRRSASQQHDQYLCRGWGLWFP  
DLHVPLHQLLGWHGVWGPGRGDGQSGRMEDIQNKKETMQSLNDCLASYLDRVRLDTKNRKLESKIREHLEKKG  
PQVRDWSHYFKTVEDLRAQIFANTVDNARIVLQVDNAHLADDFRVKYVTELAMRQSMESDIHGLRKVIDDTNVTR  
LQLETEIEALKEELLFMKKNEEGEIKGLQAQIASSGLTVEVDIPKSQDLAKLMADIWAQYDELARKSQEELGKYW  
SQQIEESITVVTMQSTEMEQFNRIILLHLESELAQTWAEGQCQAQYEALLSIRVKLEAEIATYHHLEDTTTGRI  
VDGKVGSETNNTKVLRH

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**FIGURE 779A**

CGGTCCCTCGCCGCGCCGCCCCGAGGGGCACTTCGGGCGGCGGTTCACTTCCTGGTTGGGTGGATGGAGCCGGGC  
GGGAGCGCGCGCGGGGGAGGGGCGGCGGGTCAGTCTCGGCCGGCGCTCCCGGGATCAGCTGGCGGGCGGGCGGG  
AGCCGAGCGCGGCCCGGCTCTCGCTGCAGCGCCGCTCTTCTCTGCGTCGCAGGCCGGCCCGCGGCCGTGACA  
ATGTCGCGGGGCTGGTAGCAGGGCGCCGCGCCGAGCCGTCTCAAGTTTAACTTACACGAATCGCTTTCTGGA  
GGAGGAGGGGACCCGCTGCGCGATTGACACGCATATTCTATAGGCATCCTCCCTCAGCCCCACCCCCACGGCC  
GGATTCGGGTGGCTCCTCTCCGAGGTGAAATCTGAGAAGAAATCCTTGGATCTCTTTTCTAAAAA  
AAAAAATCTAGAAACCATCGGTATTTTGTCTTGTCTCCCTATTCGCAAGATGAAGAAGTTTTTCGACTC  
CCGGCGAGAGCAGGGCGGCTCTGGCCTGGGCTCCGGCTCCAGCGGAGGAGGGGCGAGCACCTCGGGCCTGGGCAG  
TGGCTACATCGGAAGAGTCTTCGGCATCGGGCGACAGCAGGTACAGTGGACGAGGTGTTGGCGGAAGGTGGATT  
TGCTATTGTATTTCTGGTGAGGACAAGCAATGGGATGAAATGTGCCTTGAAACGCATGTTTGTCAACAATGAGCA  
TGATCTCCAGGTGTGCAAGAGAGAAATCCAGATAATGAGGGATCTTTCAGGGCACAAGAATATTGTGGGTTACAT  
TGATTCTAGTATCAACAACGTGAGTAGCGGTGATGTATGGGAAGTGCTCATTCTGATGGACTTTTGTAGAGGTGG  
CCAGGTGGTAAACCTGATGAACAGCGCCTGCAAACAGGCTTTACAGAGAATGAAGTGCTCCAGATATTTTGTGA  
TACCTGTGAAGCTGTTGCCCGCTGCATCAGTGCAAACTCCTATTATCCACCGGGACCTGAAGGTTGAAACAT  
CCTCTTGATGACCGAGGCCACTATGTCCTGTGTGACTTTGGAAGCGCCACCAACAAATTCCAGAATCCACAAAC  
TGAGGGAGTCAATGCAGTAGAAGATGAGATTAAGAAATACACAACGCTGTCTATCGAGCACCAGAAATGGTCAA  
CCTGTACAGTGGCAAAATCATCACTACGAAGGCAGACATTTGGGCTCTTGGATGTTTGTGTATAAATTATGCTA  
CTTCACTTTGCCATTTGGGGAAAGTCAGGTGGCAATTTGTGATGGAACTTCACAATTCCTGATAATTCTCGATA  
TTCTCAAGACATGCACTGCCTAATTAGGTATATGTTGGAACAGACCCCTGACAAAAGGCCGGATATTTACCAGGT  
GTCCTACTTCTCATTTAAGCTACTCAAGAAAGAGTGCCCAATTCCAAATGTACAGAACTCTCCCATTCTGCAAA  
GCTTCCTGAACCAGTGAAAGCCAGTGAGGCAGCTGCAAAAAGACCCAGCCAAAGGCCAGACTGACAGATCCCAT  
TCCCACCACAGAGACTTCAATTGCACCCCGCCAGAGGCCATAAGCTGGGCAGACTCAGCCGAACCCAGGAATCCT  
TCCCATCCAGCCAGCGCTGACACCCCGGAAGAGGGCCACTGTTAGCCCCCACCCTCAGGCTGCAGGATCCAGCAA  
TCAGCCTGGCCTTTTAGCCAGTGTTCCCAACCAAAACCCCAAGCCCCACCCAGCCAGCCTCTGCCGCAAACTCA  
GGCCAAGCAGCCACAGGCTCCTCCACTCCACAGCAGACGCCTTCTACTCAGGCCCAGGGTCTGCCCGCTCAGGC  
CCAGGCCACACCCAGCACCAGCAGCAACTCTTCTCAAGCAGCAACAGCAGCAGCAACAGCCACCGCCAGCACA  
GCAGCAGCCGGCAGGCACGTTTTACCAGCAGCAGCAGGCCCAGACTCAGCAGTTTCAGGCAGTACATCCAGCAAC  
CCAGAAACCAGCAATTGCTCAGTTCCCTGTGGTGTCCCAAGGAGGCTCTCAACAGCAGCTAATGCAGAATTTCTA  
CCAGCAGCAGCAGCAGCAACAACAACAGCAACAGCAACAGCTGGCCACAGCCCTGCATCAACAACAGCTGAT  
GACTCAGCAGGCTGCCTTGACAGCAAAAGCCCACTATGGCAGCAGGACAGCAGCCCCAGCCACAGCCAGCTGCAGC  
CCCACAGCCAGCCCTGCCAGGAGCCAGCGATTCAAGCCCCAGTAAGACAAACAGCCAAAGGTTTCAGACAACCCC  
ACCTCCTGCCGTCCAGGGGCAGAAAGTTGGATCTCTCACTCCACCCTCATCCCCAAAACCCAAACGTGCTGGGCA  
CAGGCGTATTCTCAGTGACGTAACCCACAGTGACGTCTTTGGGGTCCCTGCCAGCAAATCAACCCAGCTGCTCCA  
GGCAGCTGCAGCTGAGGCCAGTCTCAATAAGTCCAAGTCTGCAACCACCACTCCATCAGGCTCTCCTCGGACCTC  
TCAACAAAACGTTTATAATCCTTCAGAAGGTCTACGTGGAATCCCTTTGATGACGATAATTTCTCCAAACTCAC  
AGCTGAAGAACTGCTAAACAAGGACTTTGCCAAGCTTGGGGAAGGCAACATCCCGAGAAGCTTGGAGGCTCAGC  
TGAGAGTTTGATCCAGGCTTTCAATCAACCCAAGGTGATGCTTTTGCTACGACCTCATTTTCTGCTGGAAGTGC  
TGAAAAAGGAAGGGTGGGCAGACTGTGGAATCTGGCCTCCCGCTTCTAAGCGTGTCTGATCCTTTTATTCTCT  
TCAAGTACCTGATGCACCAGAAAACTAATTGAGGGACTCAAATCTCCTGACACTTCTCTTCTGCTCCCTGACCT  
CTTGCTATGACAGATCCTTTTGGTAGCACTTCTGATGCTGTAATTGGTAAAGTCATCATCTCTGTTTCTTCACT  
CATGCATGATATGTGTGCTGTTTCAAGAATGACAAGTACCTAGTTAAACCAATCCCTGGGGAATAGCCCTGCCAC  
CCCAGAAGCCAAGGCTATTTAATCTCACTTGTATCACTCCAAATGAAGTGTTCCTTGCTTTTCGGGGGTACAA  
CGTCTATTTTTTGCCTTTCTTGATATCTGGAGATTTCTAGAGTGGATCTCTTATGAATGAGGAGGAATGTGGAAA  
GTTTCACATTTAGTTAGAAGAACTTTAAAAAATTGGTTTCTAACTAGACTACCTTTACTGAACCTAATGAAATTT  
AGCAGATTCTTCTTTTTTTTTTTTTTTTGTGTTGAGACAGAGTTTCACTCTTGTGCTTAGGCTGGAGTGCAATGGCA  
AGATCTCAGCTCACTGCAACCTCCATCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGA  
TTACAGGCATGCACCACCATGCCTGGCTAATTTTTATATTTTAGTAGAGATAGGGTTTCTCCATGTTGGTCAGG  
CTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAGTGCTGGGATTACAGGGGTGAGCC

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**FIGURE 779B**

ACCATGCCAGCCAGATTCTTCTTTAGAAAGGCCCATGTACATCCAGCTGCAGTGGGACGAGCCTGGGAAGCATA  
GGAAGACCCCATCCCTACAAAAAAATGTTGTTAGTTAGCCAGGTGTGGGGGTGCACACCTGTGCTACCAGCTCT  
TTGGGAGGCTGAGACGGAAGATCACTTTGAGCCAGGGGGTTTGAGGCTGCAGTGAGCCCTGATCATGCCACTGCC  
CTCCAGCTTAAGTGACAGAGACCCATCTTAAACAAAATTAAAAAATTTAAAAAGGTCCATGTATATACCAAGTAT  
CAGTAACTGAGAAAACATTTTGCCCACTGGTTAAGCCCCATAAATAGAATCCAGGGCAGGGGCTTGGTCTGCTTC  
CTCTCTCACATTTTCCTATGTTCCAACAGCAAGGCAGGCAAGATTTGCAAAATGTCCAAGGCCCTGTACTCCAG  
GAGGGTCCAATCATGAGGCACCTAATAATGCCTTTGGGCAGAAAGTCCTAGAACTCAGAAGTGCCATGACCTTGC  
ATAGGGGTAGGCCTGCAGCTGAGGGGTGTCACGTGGTGCAAAAGGCCTCCCAGCTACATCCTGGGATGGGGTTTG  
AGATGGATTAATGGCCTTTGCATGGCACAGAGGATGTTTGCCCCAGGTTTATCCCTTAATAAAAAGTGAAATTAC  
CAGAAAAAATTAAGGTGCCTTTCAGCCCATCTCTTCTGACATGGAAGAGGTTTGCTGAGCGGCTTATGTTCTGAA  
TTTGTTTATGAGAACTGATCATTAGTGAGACTGGCCACAGTATTTAACCTTGACATGCATGCTCAGTGAAGCCT  
AGACATTCAGAGCAGCAGAAATAAAGTAACTTATTTTTCTTTCCACCTTGCCTGAGACTGGCATTTTAGAGACCT  
GTTAAAGAAAGTCTTCACATGGCTGGGTGCAGTGGCTCACACTTGTAACCACAGGACTTTGGGAGGCCAAGGTG  
GGATAGATCGCTTGAGCTCAGGAGCAAGACACCATCTCAAAAAATGAGAATT

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**FIGURE 780**

GCCCCAGGTGCGCTTCCCCTAGAGAGGGATTTTCCGGTCTCGTGGGCAGAGGAACAACCAGGAACCTTGGGCTCAG  
TCTCCACCCACAGTGGGGCGGATCCGTCCCGGATAAGACCCGCTGTCTGGCCCTGAGTAGGGTGTGACCTCCGC  
AGCCGCAGAGGAGGAGCGCAGCCCGCCTCGAAGAACTTCTGCTTGGGTGGCTGAACTCTGATCTTGACCTAGAG  
TCATGGCCATGGCAACCAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCAATGCCATGGAAGATGCCCAGACCC  
TGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCCTACCGCAACACCGCCC  
AGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTGAAGTCAGAACTGA  
GTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCACCGTGCTGTATGACGTGCAAGAGCTGCGAAGGG  
CCATGAAGGGAGCCGGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTCCCGGACCCCTGAGGAGATCCGGC  
GCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGATGACATTGCTCTGACACATCGTTCATGT  
TCCAGCGAGTGTGTTGTCTCTGTGACGCTGGTGGGAGGGATGAAGGAAATTATCTGGACGATGCTCTCGTGAGAC  
AGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAAATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTCT  
GTTCCCGGAACCGAAATCACCTGTTGCATGTGTTTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGA  
GTATTAAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTG  
CATATTTTGCTGAAAAGCTCTATAAATCGATGAAGGGCTTGGGCACCGATGATAACACCCTCATCAGAGTGATGG  
TTTCTCGAGCAGAAATTGACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGT  
TCATCAAGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTTCTCTGTGGAGGAGATGATTAATAAATAAAA  
ATCCCAGAAGGACAGGAGGATTCTCAACACTTTGAATTTTTTTAACTTCATTTTTCTACACTGCTATTATCATT  
TCTCAGAAATGCTTATTTCCAATTAACCGCTACAGCTGCCCTCTAGAATATAGACTGTCTGTATTATTATTAC  
CTATAATTAGTCATTATGATGCTTTAAAGCTGTACTTGCATTTCAAAGCTTATAAGATATAAATGGAGATTTTAA  
AGTAGAAATAAATATGTATTCCATGTTTTTAAAGATTACTTTCTACTTTGTGTTTACAGACATTGAATATATT  
AAATTATTCCATATTTTTCTTTTTCAGTGAAAAATTTTTTAAATGGAAGACTGTTCTAAAATCACTTTTTTCCCTAA  
TCCAATTTTTTAGAGTGGCTAGTAGTTTTCTTCATTTGAAATTGTAAGCATCCGGTCAGTAAGAATGCCCATCCAGT  
TTTCTATATTTCATAGTCAAAGCCTTGAAAGCATCTACAAATCTTTTTTTTAGGTTTTGTCCATAGCATCAGTT  
GATCCTTACTAAGTTTTTTCATGGGAGACTTCCTTCATCACATCTTATGTTGAAATCACTTTCTGTAGTCAAAGTA  
TACCAAAACCAATTTATCTGAACATAAATCTAAAGTATGGTTATACAAACCATATACATCTGGTTACCAAAACATA  
AATGCTGAACATTCCATATTATTATAGTTAATGTCTTAATCCAGCTTGCAAGTGAATGGAAAAAATAAGCTT  
CAAACCTAGGTATTCTGGGAATGATGTAATGCTCTGAATTTAGTATGATATAAAGAAAACTTTTTGTGCTAAAAA  
TACTTTTTAAATCAATTTTGTGGATTGTAGTAATTTCTATTTGCACTGTGCCTTTCAACTCCAGAAACATTCTG  
AAGATGTACTTGGATTTAATTAAAAAGTTCACCTTGT



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**FIGURE 781**

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRTAYKSTIGRDLIDDLKSELS  
GNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEGCLIEILASRTPEEIRRISQTYQQQYGRSLEDDIRSDTSFMF  
QRLVLSLSAGGRDEGNYLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLHVFDEYKRISQKDIEQS  
IKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEIDMLDIRAHFKRLYGKSLYSF  
IKGDTSGDYRKVLLVLCGGDD

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**FIGURE 782**

CGCCACCGCCGCGCCCTCGCCACCCGCCCCGCCGCTCCCGCCCCGCTCGCCCCCTCCGCCGCCGCCGCC  
GCCCCCTGCGACTACGCTGCGGCCCTCCCGCCCGCTCCCGCTCGCTCCCGCGGCCCTCGCTCGCCTCGCGCCGGCAG  
TTTTGGGCCTACACCTCCCCTCCCCCGCCAGCCGCCAAAGACTTGACCACGTAACGAGCCCAACTCCCCGAAC  
GCCGCCCGCCGCTCGCCATGGATGCCGGTGTGACTGAAAGTGGAATAATGTGACTCTCACCATTGGCTTCTTA  
TGCACGAAAGGAAGTAGGAAGCATCATTGGGAAGAAAGGGGAGTCGGTTAAGAGGATCCGCGAGGAGAGTGGCG  
CGCGGATCAACATCTCGGAGGGGAATTGTCCGGAGAGAATCATCACTCTGACCGGCCCCACCAATGCCATCTTTA  
AGGCTTTCGCTATGATCATCGACAAGCTGGAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCAGCA  
GGCCCCCGGTACCCCTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAAAG  
TCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCCAACTCCACCGAGCGGG  
CCATCACCATCGCTGGCGTGCCGAGTCTGTACCGAGTGTGTCAAGCAGATTGCTGGTGGTATGCTGGAGACGC  
TCTCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACCAGCCCATGCCGGCCAGCTCCCCAGTCATCTGCG  
CGGGCGGCCAAGATCGGTGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGGAGGGACCACCTCTAG  
ATGCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGCAAGACAAC  
AGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCCGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCT  
ATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCATTCCAAATAACTTAATTGGCTGCATAA  
TCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGGCCAGATCAAAATTGCCAACCCAGTGG  
AAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAGTATCTAATCAATG  
CCAGGCTTTCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAGGTTCCCTCAATAACCCCTTTCTGCTGT  
TCTCCCATGATCCAACCTGTGTAATTTCTGGTCAGTGATTCCAGGTTTTAAATAATTTGTAAGTGTTCAGTTTCTA  
CACAACCTTTATCATCCGCTAAGAATTTAAAAATCACATTCTCTGTTCAGCTGTTAATGCTGGGATCCATATTTAG  
TTTTATAAGCTTTTCCCTGTTTTTAGTTTTGTTTTGGGTTTTTTGGCTCATGAATTTTATTTCTGTTTGTGATA  
AGAAATGTAAGAGTGGAATGTTAATAAATTTAGTTTAGTTCTGTAATGTCAAGAATTTAAGAATTAATAAACGG  
ATTGGTTAAAAAATGCTTCATATTTGAAAAAGCTGGGAATTGCTGTCTT

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**FIGURE 783**

CCAAGCTGAACCAGGTGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCCGGAATTG  
ACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCA  
TTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGG  
CCCAGATCAAATTTGCCAACCAGTGGAAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTA  
TTAGTCTGGCCCAGTATCTAATCAATGCCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAG  
GTTCCCTCAATAACCCCTTTCTGCTGTTCTCCCATGATCCAACGTGTGAATTTCTGGTCAGTGATTCCAGGTTTT  
AAATAATTTGTAAGTGTTTCAGTTTCTACACAACCTTATCATCCGCTAAGAATTTAAGCTTTTCCCTGTTTTTAGT  
TTTGTTTTGGGTTTTTTGGCTCATGAATTTTA

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**FIGURE 784**

CGCAGAGCTCGCGCGTCGGTGTGGTTACAGCCGGCAGCCACGGCACCTCCTTCCGGCCGACTAGTCTCCAGGTCC  
CGCGGTCTGGCCCCTGGTCACCCGGCGCTGTCCCTCGTTCCTTGAAGATCTCCAGTGCTACCTTTTGTTGAACAT  
CTCGAATACACCAAACCTTCTAGCTGCTAATACTCAGATTTATGGACAAGAAGTTATCATTGAAATTAAATGGTG  
GCAGACATGTCCAAGGAATATTGCGGGGATTGATCCCTTTATGAACCTTGTGATAGATGAATGTGTGGAGATGG  
CGACTAGTGGACAACAGAACAATATTGGAATGGTGGTAATACGAGGAAATAGTATCATCATGTTAGAACCTTGG  
AACGAGTATAAATAATGGCTGTTTCAGCAGAGAAACCCATGTCCTCTCTCCATAGGGCCTGTTTTACTATGATGTA  
AAAATTAGGTCATGTACATTTTCATATTAGACTTTTTGTTAAATAAACTTTTGTAATAGTCAAAAATGCTTCTC  
AGATGTTCTGAATATAGAATATCAGCTCTCATTCCAGTTTTTCTAACATGAATTTTCTGGTTGACATTGATT  
CAAAGGGTTTTATGCATTAAAGTGAAAGAATCTTATTAAATGTGAAACATGGCAAGGATTCTTCTGTCCATCAT  
CTTTCACACTGAACAGATAAAGAAGTTACAAACATGAGTGAGTTTCTTCTAAAACACTAATTTTC

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**FIGURE 785**

GTACGCCGATTCCATATGGGCGCCGGCGCGGAGCGCCGCGGGGCAGCGCGGGGTGCGCCATGGCTGAGCTGCAGCA  
GCTCCGGGTGCAGGAGGCGATGGAGTCCATGGTGAAGAGTCTGGAAAGAGAGAACATCCGGAAGATGCAGGGTCT  
CATGTTCCGGTGCAGCGCCAGCTGTTGTGAGGACAGCCAGGCCTCCATGAAGCAGGTGCACCAGTGCATCGAGCG  
CTGCCATGTGCCTCTGGCTCAAGCCCAGGCTTTGGTCACCAGTGAGCTGGAGAAGTTCCAGGACCGCCTGGCCCCG  
GTGCACCATGCATTGCAATGACAAAGCCAAAGATTCAATAGATGCTGGGAGTAAGGAGCTTCAGGTGAAGCAGCA  
GCTGGACAGTTGTGTGACCAAGTGTGTGGATGACCACATGCACCTCATCCCACTATGACCAAGAAGATGAAGGA  
GGCTCTCTTATCAATTGGAAAAATAAAGTATTTGCCAGTGGCCATCAGGCTGAGGGCAAGAATATATTTTTTATA  
AGGAATTGGGAATTTTAGTCTTTTAAGCAAAGTTTACGAATGAAGAAATGAAGGATGGCCACAAGCGTAAGGCAT  
ATGTCACTTGCCCTCTGGACACTGGTTATTTTATGTTTCAGTCCCTAAAAAATGAAATGGAAAAAAGTGGTGCTAA  
ATCGAGTCAGAGATATTACAGGAGAGTTTTAGAGCTTATTATTTCTGTGGCCAGTGCTTGTCTCTGGCAGTAAGG  
CTCTCCCTGTAAACAAGCCAGAGCCCTCCAAGGTACCAGACTCTTCTTACTACACAGGTACTAACAGGCTGGCAG  
GTTAGAGTTGGTGGAGTCTGAGGAGAGATATTTTCTCTTTGTTGCCAACATCCTGTTTACCAAAGTGTACCCCC  
ACCATCTTCCATAAGCTGTGAAACAAAATCAATGAGGTCACTAACTTAGAAGGGAAAGAAAGTTTTCTGGGTCTT  
TGTTTTCTTGATTTGGGGTAATTTATACAAGGGCATACAAGTTGATTTTAAGATGTGGAAGTGGGAGGTAGACTA  
GTTTGGATAAGAAGCTTTGAAATGTTCTTGTGGATCCCCATTTCTGGTCATCAAGATGTGGATGTACATTTCTTA  
AAATTATTACATGCTGCATCTTTCAGCCTGGAGACTGTGCAGAAACATGAGAGGTGATGACACACTAATTATGGG  
AAGCAGAATTACTGGCTGATGGCCCCCTGAGGCTGTGTGTAACAAAATGACAGGACAATCTTGAGTAACACTTTC  
CCCTTGAAGAGAAGGGGGTTTTGATTGTGATATATACTAGTATCTAGGAATGAACAGTAAAGAGGAGCAGTTGG  
CTACTTGATTACAACAGAGTAAATGAAGTACTGGATTTGGGAAAACCTGGTTTTATTAGAACATATGGAATGAAA  
GCCTACACCTAGCATTGCCTACTTAGCCCCCTGAATTAACAGAGCCCAATTGAGACAAACCCCTGGCAACAGGAA  
ATTCAAGGGAGAAAAAGTAAGCAACTTGGGCTAGGATGAGCTGACTCCCTTAGAGCAAAGGAGAGACAGCCCCCA  
TTACCAAATACCATTTTTGCCTGGGGCTTGTGCAGCTGGCAGTGTTCCTGCCCCAGCATGGCACCTTATTGTTTT  
GATAGCAACTTCGTTGAATTTTACCAACTTATTACTTGAAATTATAATATAGCCTGTCCGTTTGCTGTTTCCAG  
GCTGTGATATATTTTCTAGTGSTTTGACTTTAAAAATAAATAAGGTTAATTTTCTCCCC

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**FIGURE 786**

MAELQQLRVQEAMESMVKSLENERENIRKMQGLMFRCSASCCEDSQASMKQVHQCIERCHVPLAQAQALVTSELEKF  
QDRLARCTMHCNDKAKDSIDAGSKELQVKQQLDSCVTKCVDDHMHLIPTMTKKMKEALLSIGK

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**FIGURE 787A**

CAGACCCGCCCGTGGCTGCAGCAGTGGTGTCCCATTTTAATGACTGCCAGATTCCCACACTCAGTTCTGCTTCC  
ATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGTGTCTGCCATTCTGGGTACGTTGGTGCACGCT  
GTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAGAAGAAGCAGGCCATCACC GCCTTGGTGGTGGTCT  
CCATCGTGGCCCTGGCTGTCTTATCATCACATGTGTGCTGATACACTGCTGCCAGGTCCGAAAACACTGTGAGT  
GGTGCCGGGCCCTCATCTGCCGGCACGAGAAGCCCAGCGCCCTCCTGAAGGGAAGAACC GCTTGTGCCACTCAG  
AAACAGTGGTCTGAAGAGCCCAGAGGAGGAGTTTGGCCAGGTGGACTGTGGCAGATCAATAAAGAAAGGCTTCTT  
CAGGACAGCACTGCCAGAGATGCCCTGGGTGTGCCACAGACCTTCTACTTGGCCTGTAATCACCTGTGCAGCCTT  
TTGTGGGCCTTCAAAACTCTGTCAAGAACTCCGTCTGCTTGGGGTTATTTCAGTGTGACCTAGAGAAGAAATCAGC  
GGACCACGATTTCAAGACTTGTTAAAAAAGAACTGCAAAGAGACGGACTCCTGTTACCTAGGTGAGGTGTGTGC  
AGCAGTTGGTGTCTGAGTCCACATGTGTGCAGTTGTCTTCTGCCAGCCATGGATTCCAGGCTATATATTTCTTTT  
TAATGGGCCACCTCCCCACAACAGAATTCTGCCCAACACAGGAGATTTCTATAGTTATTGTTTTCTGTCAATTTGC  
CTACTGGGGAAGAAAGTGAAGGAGGGGAAACTGTTTAATATCACATGAAGACCCTAGCTTTAAGAGAAGCTGTAT  
CCTCTAACCACGAGACCCCTCAACCAGCCCAACATCTTCCATGGACACATGACATTGAAGACCATCCCAAGCTATC  
GCCACCCTTGGAGATGATGTCTTATTTATTAGATGGATAATGGTTTTATTTTAACTCTTAAAGTCAATGTAAAA  
AGTATAAAAACCCCTTCAGACTTCTACATTAATGATGTATGTGTGCTGACTGAAAAGCTATACTGATTAGAAATG  
TCTGGCCTCTTCAAGACAGCTAAGGCTTGGGAAAAGTCTTCCAGGGTGCGGAGATGGAACCAGAGGCTGGGTTAC  
TGGTAGGAATAAAGGTAGGGGTTCAGAAATGGTGCCATTGAAGCCACAAAGCCGGTAAATGCCTCAATACGTTCT  
GGGAGAAAACCTTAGCAAAATCCATCAGCAGGGATCTGTCCCTCTGTTGGGGAGAGAGGAAGAGTGTGTGTCTA  
CACAGGATAAAACCAATACATATTGTACTGCTCAGTGATTAAATGGGTTCACTTCCTCGTGAGCCCTCGGTAAAGT  
ATGTTTAGAAATAGAACATTAGCCACGAGCCATAGGCATTTCAGGCCAAATCCATGAAAGGGGGACCAAGTCATTT  
ATTTTCCATTTTGTGTGCTTGGTTGGTTTGTGCTTTATTTTTTAAAAGGAGAAGTTTAACTTTGCTATTTATTTTC  
GAGCACTAGGAAAACCTATTCAGTAATTTTTTTTTTCTCATTTCATTTCAGGATGCCGGCTTTATTAACAAAAAC  
TCTAACAAGTCACCTCCACTATGTGGGTCTTCTTTCCCTCAAGAGAAGGAGCAATTGTTCCCTGAGCATCTG  
GGTCCATCTGACCCATGGGGCCTGCCTGTGAGAAACAGTGGGTCCCTCAAATACATAGTGGATAGCTCATCCCT  
AGGAATTTTCATTAAAATTTGGAAACAGAGTAATGAAGAAATAATATATAAACTCCTTATGTGAGGAAATGCTAC  
TAATATCTGAAAAGTGAAAGATTTCTATGTATTAACCTCTTAAGTGCACCTAGCTTATTACATCGTGAAAGGTACA  
TTTTAAATATGTTAAATTTGGCTTGAAATTTTCAGAGAATTTTGTCTTCCCTAATTCCTTCTTCTTGGTCTGGAA  
GAACAATTTCTATGAATTTTCTCTTTATTTTTTTTTTATAATTCAGACAATTCTATGACCCGTGTCTTCATTTTGT  
GCACTCTTATTTAACAATGCCACACCTGAAGCACTTGGATCTGTTTCAGAGCTGACCCCTAGCAACGTAGTTGAC  
ACAGCTCCAGGTTTTTAAATTACTAAAATAAGTTCAAGTTTACATCCCTTGGGCCAGATATGTGGGTTGAGGCTT  
GACTGTAGCATCCTGCTTAGAGACCAATCAACGGACACTGGTTTTTACACCTCTATCAATCAGTAGTTAGCATCC  
AAGAGACTTTGCAGAGGCGTAGGAATGAGGCTGGACAGATGGCGGAAGCAGAGGTTCCCTGCGAAGACTTGAGAT  
TTAGTGTCTGTGAATGTTCTAGTTCTAGGTCCAGCAAGTCACACCTGCCAGTGCCCTCATCCTTATGCCTGTAA  
CACACATGCAGTGAGAGGCCTCACATATACGCCTCCCTAGAAGTGCCCTCCAAGTCAGTCCTTTGGAAACCAGCA  
GGTCTGAAAAAGAGGCTGCATCAATGCAAGCCTGGTTGGACCATTGTCCATGCCTCAGGATAGAACAGCCTGGCT  
TATTTGGGGATTTTTCTTCTAGAAATCAAATGACTGATAAGCATTGGATCCCTCTGCCATTTAATGGCAATGGTA  
GTCTTTGGTTAGCTGCAAAAATACTCCATTTCAAGTTAAAAATGCATCTTCTAATCCATCTCTGCAAGCTCCCTG  
TGTTTCCCTTGCCCTTTAGAAAATGAATTGTTCACTACAATTAGAGAATCATTTAACATCCTGACCTGGTAAGCTG  
CCACACACCTGGCAGTGGGGAGCATCGCTGTTTCCAATGGCTCAGGAGACAATGAAAAGCCCCCATTTAAAAAAA  
TAACAAACATTTTTTAAAAGGCCCTCCAATACTCTTATGGAGCCTGGATTTTCCCACTGCTCTACAGGCTGTGAC  
TTTTTTTAAAGCATCCTGACAGGAAATGTTTTCTTCTACATGGAAAGATAGACAGCAGCCAACCCTGATCTGGAAG  
ACAGGGCCCCGGCTGGACACACGTGGAACCAAGCCAGGGATGGGCTGGCCATTGTGTCCCCGCAGGAGAGATGGG  
CAGAATGGCCCTAGAGTTCTTTTCCCTGAGAAAGGAGAAAAAGATGGGATTGCCACTCACCCACCCACACTGGTA  
AGGGAGGAGAATTTGTGCTTCTGGAGCTTCTCAAGGGATTGTGTTTTGCAGGTACAGAAAAGTGCCTGTTATCTT  
CAAGCCAGGTTTTTCAGAGGCACATGGGTACCAGTTGCTTTTTTCAGTCAATTTGGCCGGGATGGACTAATGAGGC  
TCTAACACTGCTCAGGAGACCCCTGCCCTCTAGTTGGTTCTGGGCTTTGATCTCTTCCAACCTGCCAGTCAAG  
AAGGAGGAATGACTCAAATGCCCAAAACCAAGAACACATTGCAGAAGTAAGACAAACATGTATATTTTTAAATGT  
TCTAACATAAGACCTGTTCTCTCTAGCCATTGATTTACCAGGCTTTCTGAAAGATCTAGTGGTTACACAGAGAG

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**FIGURE 787B**

AGAGAGAGTACTGAAAAAGCAACTCCTCTTCTTAGTCTTAATAATTTACTAAAATGGTCAACTTTTCATTATCTT  
TATTATAATAAACCTGATGCTTTTTTTTAGAACTCCTTACTCTGATGTCTGTATATGTTGCACTGAAAAGGTTAA  
TATTTAATGTTTTAATTTATTTTGTGTGGTAAGTTAATTTTGATTTCTGTAATGTGTTAATGTGATTAGCAGTTA  
TTTTCCTTAATATCTGAATTATACTTAAAGAGTAGTGAGCAATATAAGACGCAATTGTGTTTTTCAGTAATGTGC  
ATTGTTATTGAGTTGTACTGTACCTTATTTGGAAGGATGAAGGAATGAATCTTTTTTTCCT



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**FIGURE 788A**

ATTTCTCCAGCCTCGTGCGGGAAATGGCTTTAATTCTGACGGCAGGGCTGTGAGGGACTAGCGGGAACCCGAG  
CCTTTTGTCAAGGAAGTGC GGCGTTCGGTGGCCAGTCATCCCCGCCGCCGCGGAGCCGCTGCACTGCTGGGGGATC  
TCCCAGCAGCTCTGACGAGCGCGGGCTGCAGCATGGGCAGAAAACGCTGCCCTGCAGATTAGCTGGGTGGATTTT  
TTAAGCGCACCCCAACCCCAATAAAATAACAAAACCAACCCGCAGTGGCCGACCGGAGATAGCTAAGAT  
GCCGCGCAGGAGTTTCCACCTGGATGTTTGAGGTTGTGTAGATGTGGCCGGCACCCCTTGAGAGTGGAGCTAGGGG  
GTGCAGACTGAGCAGTGAACAGAAGGAGCCTTGGACAGGGCTGGGCCAGCCTCCCGAGTTCCAGGAGCGAATTGC  
AAACCCACCGGGAATGAGCGAAGAGACGGTCCCCGAGGCTGCCTCGCCGCCGCCCGCAGGGGCAGCCTTAC  
TTTGACCGCTTCTCAGAGGACGACCCCGAGTACATGCGCCTTCGCAACCGGGCGGGCGGACCTGCGGCAGGACTTC  
AACCTGATGGAGCAGAAGAAGCGCGTCAACCATGATCCTGCAGAGTCCCTCTTTTCAGGGAGGAGCTGGAAGGCCTC  
ATCCAGGAGCAGATGAAGAAGGGGAACAACTCCTCCAACATCTGGGCCCTGCGACAGATCGCGGACTTCATGGCC  
AGCACCTCCCACGCAGTCTTCCCGACATCTTCCATGAATGTCTCCATGATGACGCCTATCAATGACCTCCACACA  
GCTGACTCCCTGAACCTGGCCAAAAGGGGAGCGGCTCATGCGGTGCAAGATCAGCAGTGTCTACCGACTCCTGGAC  
CTCTATGGCTGGGCCCAGCTGAGTGACACCTATGTACGTTGAGAGTCAGCAAGGAGCAGGACCCTTCTTGATC  
AGCCCTAAGGGAGTTTCTTGCAGTGAAGTCACAGCGTCCAGCCTGATCAAGGTGAACATTCTGGGAGAGGTGGTG  
GAGAAGGGCAGCAGCTGCTTCCCACTGGACACCACAGGCTTCTGTCTGCACTCGGCCATCTATGCAGCGAGGCCC  
GACGTGCGCTGCATCATCCACCTGCACACACCGGCCACAGCAGCGGTGTGCGCCATGAAGTGGGGCCTCCTGCCT  
GTCTCCCAACATGCCCTGCTGGTGGGGGACATGGCCTATTATGACTTCAATGGGGAAATGGAGCAGGAAGCCGAT  
CGGATCAACCTGCAGAAGTGCTTGGACCCACCTGCAAGATCCTGGTGCTAAGAAACCATGGAGTGGTTGCTCTG  
GGTGACACGGTAGAGGAGGCATTTTACAAGATCTTCCACCTGCAGGCTGCATGTGAGATACAGGTGTGCGGCTCTG  
TCCAGTGCCGGGGGAGTGGAGAACCTCATCTCCTGGAGCAGGAGAAGCACCGGCCCATGAGGTGGGCTCCGTG  
CAGTGGGCCGGGAGCACCTTTGGGCCTATGCAGAAGAGTCGGCTGGGGGAGCATGAGTTGAGGCCCTCATGAGG  
ATGCTGGACAACCTGGGCTACAGAACAGGTTACACGTATCGCCACCCCTTTGTTCAAGAGAAAACCAACACAAA  
AGTGAGGTGGAGATTCCAGCCACGGTCACAGCCTTCGTGTTTGAGGAGGACGGTGCCCCGGTGCCCCGCTGCGA  
CAGCATGCCAGAAGCAGCAGAAGGAGAAGACCCGCTGGCTCAATACGCCAACACCTACCTGCGGGTCAATGTG  
GCCGATGAGGTCCAGAGGAGCATGGGCAGCCCCGACCCAAGACCACGTGGATGAAGGCTGACGAGGTGGAGAAA  
TCCAGCAGTGGCATGCCGATTGCGATCGAAAACCCAAACCAATTTGTGCCTCTCTATACTGACCCCCAGGAAGTA  
CTGGAGATGAGGAACAAGATTGAGAGAACAACCGACAAGATGTGAAGTCAGCGGGGCTCAGTCCCAGCTCCTG  
GCGAGCGTCAATTGCCGAGAAGAGCCGAAGCCCGTCTACAGAGAGCCAGCTGATGTCCAAGGGAGACGAGGATACC  
AAAGACGATTGAGAGGAGACGGTGCCCAACCCCTTCAGCCAACCTACTGACCAGGAGTTGGAGGAGTACAAGAAA  
GAGGTGGAGAGGAAGAACTAGAACTTGATGGAGAGAAAGAACTGCCCCAGAAGAGCCTGGCTCACCTGCAAG  
TCTGCACCTGCTTCTCCAGTGCAGAGCCCAGCGAAGGAGGCAGAGACAAAGAGCCCTTTAGTCTCTCTTCCAG  
TCTTTAGAGGAAGGTACTAAGAAGACAGAAACAAGCAAGCCGCCACCACAGAGCCCCGAAACAACCCAGCCGGAA  
GGGGTGGTGGTCAACGGGAGGGAGGAGGAGCAGACGGCAGAGGAAATCCTCAGCAAGGCCGTAGCCAGATGACC  
ACCAGTGCTGACACGGATGTTGATACCTCTAAGGACAAAACCGAGTCGGTCACCAGCGGCCCATGTCCCGAGAG  
GGCTCACCTTCCAAGTCTCCCTCAAAGAAGAAAAAGAAATTCCGAACCCCTCCTTCCTGAAAAAGAGCAAAAAG  
AAGGAGAAAGTGGAGTCTGATTGATGACACCTTGGGCTCCCTCCTGCCTCCTCTCTCCTCCCTTCCCTTC  
TCCCATCTCTGTCCCTGCAAGCACAGGGCTAAGGAGGGATAGAGTAGGACCCTGGACCACATTGGAAGGGGAAC  
TTAGAGATACCCGACCAACCCCTTCGTTTTACAGTTGCCCAAGAGAAATCAGGTGACTTGCCCAAGGTACACAG  
CTAGTTAGCGGCAGAGCCTGCACTCGAATTCAGGTCTCCTGACTTCCAGTCCAGTGCTCCTTCTACTACACAACA  
CTGCCTAGTTGTGGGCTGCCTTTGTTTGATGCTGTCCACCAATCTGAGCCTAGGGCAAGAAGGCCAGAAATGGG  
CCGTGAGCTCTCACAGGCTCAGACTAAATCAGAGGTCAAGGCTTCCCCTGAGTAAGGTCCATTCTTCCCAGGAA  
TCCAATCTCCTGTGGATGGAGCTATCTCTACATTTAAAAATCTCTCTCTTTTCCACTTTGGGTCCCTGCCCTGC  
TGCTCAAAGTGACTAGCCAAATTGACCCCTCCAACAGAAAGTAATCTTTGTTCCCAAGGGCTGATGGCTTAGCTT  
GTACTACCCCAACATTAACCTGAGCTTTCTTCATGGAACCTCTTGAATGATGGATGGAAGAGCTATAAGAGGT  
GGTAGGCATAGGGGCAAGCCATGTAAGCTGAGGATTGGGGATGGTTTCATCAACATAAGAGGCCAGGAACCTTGAC  
CCCTTTGAATTGTGCATCTCAGGCACTTCAAACTAAAACCAAAATTTAGCATAGGAAAAAGTTGTTTAAATGCTCA  
GGGCAGAAATTTGGGGAAGTTGAAATCCTCTGTTGGCTTTGGGTGTGATAAGGAGGATCAAAAACAACAGAGGAAA  
TGCTGACTTTCTAGCTTTGCATGACACCTGGAGCAATGCACTGTACCTGCCTCACTCCTGTCCAGTGGTCAGGTT

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**FIGURE 788B**

TCCCCTGACCTTCCCTCACCCCCAGAAACACTTGCTTACAGACCGAAACTGGCATCTTACTCTTGGCACCTTGAC  
TTGCACCCCTCTGAGGTTCCAACCTCAGTCATTCTTTGTCCAGCAGAGGAGAATCAGAAATGAGCCCTTCAGGATTA  
ATCCTCTTGACCACTCTCAGAGAAATGCTGGGTATCCCTGTCCTTGTCCCTATCTGTCCATCCTGGGGCCTGG  
TAATGGCCACAGTTATTGTTTTAAATGCCAACACTGTCTTCTCATGTTCTTCCGTGGGGCATTGATTAATGAGCA  
TTTGTTGGCTCCTAAAAATTAGACAATCCATTCTCTTG

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**FIGURE 789**

GGCACGAGGCGGAGAACAGGAGCAATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCCTCCCGCG  
GCTTCGGCCGGACGCTGGCCCCGCTCCTGGCCTCGCTGCTGTGCGCCGGCTCCGTGCTTGTCTTAGCGCCCGCA  
ACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCG  
CCGACCTGGGCGCCGAGGCCGGCTTGACAGAGCTGCTCGGCGCCCTGCGCGAGCTCCCCCGGCCCAAGGGGCTGC  
AGCGACTGCTGCTTATCAACAACGCGGGCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCA  
CTCAAGTGAACAACACTACTGGGCACTGAACCTGACCTCCATGCTCTGCCTGACTTCCAGCGTCCTGAAGGCCTTCC  
CGGACAGTCCTGGCCTCAACAGAACCGTGGTTAACATCTCGTCCCTCTGTGCCCTGCAACCTTTCAAAGGCTGGG  
CGCTGTACTGTGCAGGAAAGGCTGCTCGTGATATGCTGTTCCAGGTCCCTGGCGCTGGAGGAACCTAATGTGAGGG  
TGCTGAACTATGCCCCAGGTCCTCTGGACACAGACATGCAGCAGTTGGCCCGGAGACCTCCGTGGACCCAGACA  
TGCGAAAAGGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTGGTGGATTGCAAGGTGTCAGCCCAGAACTGCTGA  
GCTTACTGGAAAAGGACGAGTTCAAGTCTGGAGCCACGTGGACTTCTATGACAAATAAGCCCATGTTTTTGGCT  
TCCTGAACCTTTTTGCCCCACTTTTAGACATACCCCAGAGCCCTGTGGCTCCCCACACCCTGCCATAGGGGCGAG  
TCCTGCCTTACACATAGAAGCATTATGCCTGCTGCCCTGCCCTCAGGCACAGCCAGCTGTGAGCTCCCAGGTCA  
TTGGCCTTACCAGTTGTCAGGAGTCTGTGCTGTGACCCCTGGGTTATAAGGAGGCTTAGGAGAGAGGTTATGGGT  
ATTGGTGTCTCTATCCCCAGGAATAGAACTTAAGGGGTGGGAAGAACAGGAAAAGAAGCTGGAACACAGAAGAGA  
GGAGGTTGTGTCTCTTGCTCATAGCAAGCCTGTGGGTAGAGGAAAGAGTGATCTGGTGTGCAATAGGAGGACCCA  
TGTAATTTCGCAGATGGCCTGGATGGGAGGAAGGGCAGACGGTACATGTCCCAGCCCACATAGATGCCCTTGCT  
GAGGGTAGCAGGACCTTCTGTTGAACCTTTGTGTCCTCACTCTGATGTCTCCTTCCTTCAGAATCTACCACCCCTC  
CCCCAGGCTGGGAGAAGGGGCTCCTGGGTGTCTGTATACACGCCAAAGGCAGATACAAATAAAATACAGATTGTC  
CTTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 790**

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDALRQLEAELGAERSGLRVVRVPADLGAEAG  
LQQLLGALRELPRPKGLQRLLLINNAGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLKAFDPSPLNR  
TVVNISLALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRKGLQEL  
KAKGKLVDCKVSAQKLLSLEKDEFKSGAHVDFYDK

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**FIGURE 791**

GGAGCATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCTCCCGCGGCTTCGGCCGGACGCTGG  
CCCCGCTCCTGGCCTCGCTGCTGTCGCCCCGGCTCCGTGCTTGTCCTTAGCGCCCGCAACGACGAGGCACTGCGCC  
AGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCGCCGACCTGGGCGCCGAGG  
CCGGCTTGCAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCGGGCGCAAGGGGCTGCAGCGACTGCTGCTTATCA  
ACAACGCGGGTAAGACCCCGGGGCTGGAGCGGACTCCCCATGTGAGCGCCCACTTCCTCCACCGCTGGGGAATTT  
AAGGGCTACTCCTAGGGGTCAGATAGGACGCCTAGAAATCTAAAGCCCTAGTTGTTCCAGCTTGAGTAGCAAGTG  
GAGGCGAGGTGTACAGGAAGACTCGGTGCCGTCGGGACAACAGTCTGCCCCCACTTCCTGGAAAATTGGCCAGCC  
GGGTTTTCCAAAGCGCCTGTAGAACTTTCCCGAGCCCCTTGCTCTGCGCCCTCTGGCGGAGGCCTGAGTCAGGGC  
TTGGAGTCTCCAAACAAGTAACTCTCTGCTTCTCCAAAGGACCGCTAGAGCTTTCCTTCAGCCCCACGGCAAGG  
GCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCACTCAAGTGAACAACACTACTGGGCACTGA  
ACTTGACCTCCATG

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**FIGURE 792**

GTCCAAGGTTTGC GGCCCGGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAAATGATGC  
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCCAGCTTGTGAGTAACATCAGTG  
CCTGCCAGGTGATTGCTGAGGCTGTAAGAACTACCCTGGGTCCCCGTGGCATGGACAAGCTTATTGTAGATGGCA  
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA  
CTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG  
AGTTTCTGAAGCAGGTGAAACCCTATGTGGAGGAAGGTTTACACCCCCAGATCATCATTTCGAGCTTTCCGCACAG  
CCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA  
AGCTGCTGGAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCCAGCAGAAAGCTTTCTTTTGCTAAGA  
TGGTGGTGGATGCAGTGATGATGCTCGATGATTTGCTGCAGCTTAAAAATGATTGGAATCAAGAAGGTACAGGGTG  
GAGCCCTCGAGGATTCTCAGCTGGTAGCTGGTGTTCATTCAAGAAGACTTTCTCTTACGCTGGGTTTTGAAATGC  
AACCCAAAAAGTACCACAATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG  
CTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAAGT  
TAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT  
TTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG  
GCTCAATCCAGACCAGTGTGAATGCTCTGTGTCAGCAGATGTGCTGGGTGATGCCAGGTGTTTGAAGAGACCCAGA  
TTGGAGGCGAGAGGTACAATTTTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGGC  
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG  
ATTAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACCTCTCCAAGTACCTGCGGGATTACTCAAGGACTATT  
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGAGATTATCCACGCCAGCTGTGTGACAATG  
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCGGCATGCCAGGGGGGTACATGGTATGGAGTAG  
ACATCAACAACGAGGACATTGCTGACAACCTTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGCAGATCAATGCGC  
TGACAGCAGCCTCTGAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCCGCTCGACTGTGG  
ATGCTCCACAGCAGCAGGCCGGGGCCGTGGTGTGGCCGCCCCACTGAGAGGCACCCACCCATCACATGGCT  
GGCTGGCTGCTGGGTGCACTTACCCTCCTTGCTTGGTTACTTCATTTTACAAGGAAGGGGTAGTAATTGGCCCA  
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 793**

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA  
AKTLVDIAKSQDAEVGDGTTSVLLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE  
QRKLLKCAMTALSSKLISQQKAFFAKMVVDVMMMLDDLQLKMIKIKKVQGGALEDSQLVAGVAFKKTFSYAGF  
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVLKLPIGDVAT  
QYFADRD MFCAGRVPEEDLKRTMMACGGS IQTSVNALSADVLGRCQVFEE TQIGGERYNFFTGCPKAKTCTFILR  
GGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGA IEMELSKYL RDYSRTIPGKQQLLIGAYAKALEIIPRQLC  
DNAGFDATN ILNKL RARHAQGGTWYGV DINNEDIADNFEAFVWEPAMVRINALTAASEAACLI VSDET IKNPRS  
TVDAPTAAGRGRGRGRPH

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**FIGURE 794**

ATATAACCGCGTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGCGGTCTATGGCTGCGACTTCTCT  
AATGTCTGCTTTGGCTGCCCCGGCTGCTGCAGCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTCCACCTCGC  
GGCAGTTCGAAATGAAGCTGTTGTCATTTCTGGAAGGAACTGGCCCAGCAGATCAAGCAGGAAGTGCGGCAGGA  
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG  
TCACTCCTATGTCTCAACAAAACCAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC  
TTCAATTTAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT  
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG  
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG  
GGAAATAATCAAGCGAACTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG  
AATGCCCATTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCCCGGAGGTGATGCCACTGTTACAATATC  
TCATCGATATACTCCCAAAGAGCAGTTGAAGAAACATACAATTCTTGAGATATTGTAATATCTGCTGCAGGTAT  
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCACGA  
TCCTGTAACCTGCCAAACCCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAAGCTGGGTATATCAC  
TCCAGTTTCTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATACCATTATTGCTGCAAAAAAGGT  
GCTGAGGCTTGAAAGAGCGAGAAGTGCTGAAGTCTAAAGAGCTTGGGGTAGCCACTAATTAACTACTGTGTCTTCT  
GTGTCAAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTAAATTTATTC  
TACTGAAATGGTTTAAATGATGCCTTGATTTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG  
CAGTACCTCACCAGGAGCATTCCAGTATCATGCAGGGTCTGTGATCTAGCCAGGAGCAGCCATTAACCTAGTG  
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTCGCCTT  
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC  
AACTGATCAAACCAAAGGAAAAGTGTGCTAGAGAAAATTGGGGAAAAGGTGAAAAAGAAAAATGGTAGTAATT  
GAGCAGAAAAAAATTAATTTATATATGTATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA  
AAAAAGAAAAACTGCATGTTAATCATTTTCCTAAGCTGTCCTTTTGAGGCTTAGTCAGTTTATTGGGAAAATGTT  
TAGGATTATTCCTTGCTATTAGTACTCATTTTATGTATGTTACCTTCAGTAAGTTCTCCCCATTTTAGTTTTCT  
AGGACTGAAAGGATTCTTTTCTACATTATACATGTGTGTTGTCATATTTGGCTTTTGCTATATACTTTAACTTCA  
TTGTTAAATTTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAACCTATTTTGAAAAACAACTGGCTTGAT  
AATCATTTGGGCAGCTTGGGTAAGTACGCAACTTACTTTTCCACCAAAGAACTGTCAGCAGCTGCCTGCTTTTCT  
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTTAAGAGTTTGAGTTACTATTGAATTTAATCAGACTTT  
CTGATTAAAGGGTTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA



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**FIGURE 795**

MSALAAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQEEVEWVASGNKRPHLSVILVGENPAS  
HSYVLNKTRAAAVVGINSETIMKPASISSEELNLINKLNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVDG  
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS  
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT  
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

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**FIGURE 796**

GGAAAATTTGTCACAGCAGCCAGAGGGGTTTAAACAGGAGTGCAGAGGGATAAGGGCAGCTTCTGCCCTCTGCCCA  
AGAGCTGGCCACCTCTTTAAAGACTGAGGGAACAGTGGGAGGAGGAAGTGTGGGACAGTGTGGTACCTATCTGTC  
CCCCCTCTGGAGGGGTTGACAAGGGAAAGGGCACCGGGGGGCACAGAGATGCAGGACAGATTGCACATCCTGGAG  
GACCTGAATATGCTCTACATTCGGCAGATGGCACTCAGCCTGGAGGACACGGAGTTGCAGAGGAAGCTAGACCAT  
GAGATCCGGATGAGGGAAGGGGCTGTAAAGCTGCTGGCAGCCTGCTCCCAGCGAGAGCAGGCTCTGGAGGCCACC  
AAGAGCCTGCTAGTGTGCAACAGCCGCATCCTCAGCTACATGGGCGAGCTGCAGCGGCGCAAGGAGGCGCAGGTG  
CTGGGGAAGACAAGCCGGCGGCCCTTCTGACAGTGGCCCGCCGCTGAGCGCTCCCCCTGCCGCGGCCGGGTCTGC  
ATCTCTGACCTCCGGATTCCACTCATGTGGAAGGACACAGAATATTTCAAGAACAAAGGTGACTTGACCCGCTGG  
GCTGTGTTCCCTGCTGCTGCAGCTGGGGGAACACATCCAGGACACAGAGATGATCCTAGTGGACAGGACCCCTCACA  
GACATCTCCTTTAGAGCAATGTGCTCTTCGCTGAGGCGGGGCCAGACTTTGAACTGCGGTTAGAGCTGTATGGG  
GCCTGTGTGGAAGAAGAGGGGGCCCTGACTGGCGGCCCAAGAGGCTTGCCACCAAACCTCAGCAGCTCCCTGGGC  
CGCTCCTCAGGGAGGCGTGTCCGGGCATCGCTGGACAGTGTGGGGGTTTACGGGAGCAGTCCCATCTTGCTCCCC  
ACCCAGTTGTTGGTGGTCTCGTTACCACCTCTTGGCTCACACCACACTCACCCCTGGCAGCAGTGCAAGATGGA  
TTCCGCACACATGACCTCACCTTGCCAGTCATGAGGAGAACCTTGCTGGCTGCCCCCTTTATGGTAGCGTGTGT  
TGCCGTCTGGCAGCTCAGCCTCTCTGCATGACTCAGCCCACTGCAAGTGGTACCCTCAGGGTGCAGCAAGCTGGG  
GAGATGCAGAACTGGGCACAAGTGCATGGAGTTCTGAAAGGCACAAACCTCTTCTGTTACCGGCAACCTGAGGAT  
GCAGACACTGGGGAAGAGCCGCTGCTTACTATTGCTGTCAACAAGGAGACTCGAGTCCGGGCAGGGGAGCTGGAC  
CAGGCTCTAGGACGGCCCTTACCCTAAGCATCAGTAACCAGTATGGGGATGATGAGGTGACACACACCCCTTCAG  
ACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTTTTCTTTGACATGAGCCAATGGAAG  
CAGTGTGTGATGAAATCATGAAAATTGAAACTCCTGCTCCCCGAAACCACCCCAAGCACTGGCAAAGCAGGGG  
TCCTTGTACCATGAGATGGCTATTGAGCCGCTGGATGACATCGCAGCGGTGACAGACATCCTGACCCAGCGGGAG  
GGCGCAAGGCTGGAGACACCCCCACCCTGGCTGGCAATGTTTACAGACCAGCCTGCCCTGCCTAACCCCTGCTCG  
CCTGCCTCAGTGGCCCCAGCCCCAGACTGGACCCACCCCTGCCCTGGGGGAGACCCCGAACCTTTTCCCTGGAT  
GCTGTCCCCCAGACCACTCCCTAGGGCTCGCTCGGTTGCCCCCTCCCACCTCAGCGATCCCCACGGACCAGA  
GGCCTCTGCAGCAAAGGCCAACCTCGCACTTGGCTCCAGTCACCAGTGTGAGAGAGAAAGGTGCTGGCATAGGAT  
CTGCCCAGAAGAGAAAATGACCCATGCGCAGTTGGGCTCTGGATACGGCGCTGTCTATAGCAAGTTGGCCAGTCT  
GGCTCCTGTTCTCTGCTGGACCTGGGGTAGGCTGCAGGGGTGGGCAGAAGCCCTCTTAAATTGTGGTTGCCA  
TGGTACCGAGGGACTCATTCTGGGGCTCGCTGGGACCTCCCTAAACCCTTCTGGAAGAAAAGTGAACCAACT  
CTGCCCTACCTCCCTGCACTAACAGCTTTGAGGATGGCACTGAAGAACCCTTGAGCAAACATACCTCCCTTGT  
GACTCCACATCAACCATTAAAGTTATTTAACAGCAAAAAAAAAAAAAA

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**FIGURE 797**

MQDRLHILEDINMLYIRQMALSLEDTELQRKLDHEIRMREGACKLLAACSQREQALEATKSLVCNSRILSYMGE  
LQRRKEAQVLGKTSRRPSDSGPPAERSPCRGVCISDLRIPLMWKDTEYFKNKGDHLRWAVFLLQLGEHIQDTE  
MILVDRTLTDISFQSNVLF AEAGPDFELRLELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGG  
SGSSPILLPTPVVGGPRYHLLAHTTLTAAVQDGFRTDHLTLASHEENPAWLPLYGSVCCRLAAQPLCMTQPTAS  
GTLRVQQAGEMQNWAAQVHGVLKGTNLFCYRQPEDADTGEEPLLTIAVNKETRV RAGELDQALGRPFTLSISNQYG  
DDEVTHTLQTESREALQSWMEALWQLFFDMSQWKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAA  
VTDILTQREGARLET PPPWLAMFTDQPALPNPCSPASVAPAPDWITHPLPWGRPRTFSLDAVPPDHSPRARSVAPL  
PPQRSPTTRGLCSKGQPRTWLQSPV

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**FIGURE 798**

GACTACGTGGGTCTGGAGCTGACTGCCGTCCTGACACGTCCTAGAGCTGCAAGTCCTGCCAGAGAGCCACCATGA  
CCTCTCAGCCTCTCAGGCTAGCAGAAGAGTATGGCCCAAGTCCTGGGGAGTCTGAACTGGCTGTGAACCCCTTTG  
ATGGGCTTCCCTTCTCTTCCCGCTACTATGAGCTGCTGAAGCAGCGCCAAGCCTTGCCCATCTGGGCTGCTCGCT  
TTACCTTCTTGGAGCAGTTGGAGAGTAACCCCACTGGAGTGGTGTCTGGTGTCTGGGGAGCCTGGTTCTGGCAAGA  
GCACCCAGATCCCTCAGTGGTGTGCAGAGTTTGCCTGGCCAGAGGGTTCAGAAAAGGACAGGTTACTGTTACTC  
AGCCCTACCTCTTGCAGCCCGGGAGCCTGGCTCTGCGGGTTGCTGATGAGATGGACCTGACCCTGGGTGATGAG  
GTTGGATCCAGCATCCCCCAGGAGGACTGCACGGGGGCCAACACCCTGCTCAGGTTCTGCTGGGACAGGCTGCTT  
CTGCAGGAGGTGGCCTCGACCCGAGGCACTGGAGCCTGGGGCGTGCTGGTACTAGATGAGGCTCAGGAGCGGTGCG  
GTGGCATCAGATTCACTCCAGGGGCTACTGCAAGATGCCAGGCTGGAAAACTTCCGGGGGACCTCAGAGTGGTT  
GTGGTTACTGACCCAGCCCTTGAACCTAAGCTCCGAGCTTTCTGGGGCAATCCTCCTATTGTGCATATACCCAGA  
GAGCCTGGTGAGAGACCTTCCCCATCTACTGGGACACCATCCCACTGATCGGGTGGAAGCTGCCTGCCAAGCA  
GTGCTTGAAATTGTGTCGGAAGGAGCTTCCAGGAGATGTGCTAGTGTTCTGCCAGTGAGGAGGAAATTTCCCTG  
TGCTGTGAATCCTTGTCCAGGGAGGTAGAGTCCTTGCTTCTCCAAGGGCTTCCACCACGAGTACTGCCCTTCAC  
CCAGACTGTGGACGAGCCGTTCCAGGCTGTGTATGAGGACATGGATGCCCCGAAAGTTGTGGTCACTCACTGGCTG  
GCTGACTTCTCCTTCTCCCTCCCTTCCATCCAACATGTGATCGACTCAGGACTGGAGCTCCGAAGTGTTTACAAT  
CCTAGGATCCGAGCAGAATTCCAAGTGTGAGGCCAATCAGCAAGTGTGAGGAGAGGCAAGACGATTGCGAGCA  
AGAGGGTTCCCACCAGGATCCTGCCTCTGCCTGTATCCTAAGTCCTTCTTAGAAGCTAGAAAGCTCCACCATTGCCA  
CAACCCAGGGTGTGTGAGGAGAATCTGAGCTCCCTGGTGTACTACTAAAAAGGAGACAGATTGCAGAGCCAGGG  
GAGTGTCACTTCTGGACCAGCCTGCTCCAGAAGCACTGATGCAAGCCCTGGAAGATTTAGACTATCTGGCAGCC  
CTGGATGATGATGGGGACCTGTGAGATCTGGGTGTCATACTATCAGAATTCCTCTGGCCCTGAGCTGGCCAAA  
GCCCTGCTGGCCTCATGCGAGTTTACTGTGTGGACGAGATGCTCACCTGGCTGCCATGCTCACAGCTGCCCCCT  
GGGTTTACCCGTCCTCCACTCAGTGCAGAAGAAGCTGCCCTGCGTCGGGCCCTGGAACACACGGATGGTGACCAC  
AGTTCTCTGATCCAGGTGTATGAAGCCTTTATACAAAGTGGAGCAGATGAGGCTTGGTGCCAGGCTCGAGGTCTG  
AATTGGGCAGCATTGTGCCAAGCCCATAAACTTCGGGGAGAATCCTAGAACTCATGCAACGAATTGAACTTCCC  
TTGTCCCTACCAGCCTTTGGCTCTGAGCAGAATCGCAGAGACCTTCAGAAAGCACTGGTGTGAGAATACTTTCTC  
AAGGTGGCCAGAGACACAGACGGGACTGGAAATTACCTTCTCCTAAGCATGTGGCCAGCTCTCCTCA  
TACTGCTGCTACCGAAGCCGCAGAGCTCCTGCCAGACCCCCACCATGGGTGCTCTACCACAATTTACCATATCC  
AAAGACAACTGCCTCTCCATTGTTTCTGAGATTCAACCACAGATGCTGGTGGAATTGGCCCTCCATACTTCTG  
AGTAACTTGCCTCCCAGTGAGAGCAGAGACCTTCTGAACCAGCTAAGGGAAGGAATGGCAGATTCTACAGCAGGG  
AGCAAAATCATCCTCAGCCCAGGAGTTCAGAGATCCCTGTGTCTGCAGTGCCTGCCTGCCTATGGAATGGAGCT  
GGGTTTATCTCATCACATTAGATTATCCCTCAGGGTGACACCAAGCAGCCAGACAGATTTAGAAGCCCAAAGTT  
TAGGGTCAAATGTAAACCTGGAACCTGAGTCCCAAGAAATGGTAGACTGGGAATGGAAAGAATGGGGTAAACCA  
CAGTCTACATAGGGAAGGACTCTTTCCTTAGCCTTCTCTTATTGATTGGAGAGGGACTGACATGCTCCTCATTCT  
CTTAACTTTGCCAAACCCATTCTTGACTCCCTTGATGATCTATAAAAGATTTTCTATGATGCCAAAAAAAAA  
AAAAAAAAA

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**FIGURE 799**

MDLTIGHEVGSSIPQEDCTGPNTLLRFCWDRLLLQEVASTRGTGAWGVLVLDQAQERSVASDSLQGLLDARLEK  
LPGDLRVVVVTDPALEPKLRAFWGNPPIVHIPREPGERPSPYWDITPPDRVEAACQAVLELCRKELPGDVLVFL  
PSEEEISLCCESLSREVESLLLQGLPPRVLP LHPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSG  
LELRSVYNPRIRAEFQVLRPISKQAEARRLRARGFPPGSCLCLYPKSFLELEAPPLPQPRVCEENLSSLVLLK  
RRQIAEPGECHFLDQPAPEALMQALEDLDYLAALDDDGDLSDLGVLSEFPLAPELAKALLASCEFDVDEMLTL  
AAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSGADEAWCQARGLNWAALCQAHKLRGELLE  
LMQRIELEPLSLPAFGSEQNRRDLQKALVSEYFLKVARDTDGTGNYLLLTHKHVAQLSSYCCYRSRRAPARPPWV  
LYHNFTISKDNCLSIQVSEIQPQMLVELAPPYFLSNLPPSESRDLLNQLREGMADSTAGSKSSAQEFRDPCVLQ

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**FIGURE 800**

CGAAAATGGCGGCGGCGGCGACGGCCGGGCGCTCCTGAAGCAGCAGTTATGGAGCTTCCCTCAGGGCCGGGGCCG  
GAGCGGCTCTTTGACTCGCACC GGCTTCCGGGTGACTGCTTCCTACTGCTCGTGCTGCTGCTCTACGCGCCAGTC  
GGGTTCTGCCTCCTCGTCCTGCGCCTCTTTCTCGGGATCCACGTCTTCCTGGTCAGCTGCGCGCTGCCAGACAGC  
GTCCTTCGCAGATTCGTAGTGCGGACCATGTGTGCGGTGCTAGGGCTCGTGCGCCCGGCAGGAGGACTCCGGACTC  
CGGGATCACAGTGTGAGGGTCCTCATTTCGAACCATGTGACACCTTTCGACCACAACATAGTCAATTTGCTTACC  
ACCTGTAGCACCCCTCTACTCAATAGTCCCCCAGCTTTGTGTGCTGGTCTCGGGGCTTCATGGAGATGAATGGG  
CGGGGGGAGTTGGTGGAGTCACTCAAGAGATTCTGTGCTTCCACGAGGCTTCCCCCACTCCTCTGCTGCTATTCT  
CCTGAGGAAGAGGCCACCAATGGCCGGGAGGGGCTCCTGCGCTTCAGTTCTGGCCATTTTCTATCCAAGATGTG  
GTACAACCTCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTGAGATGCCTCCTGGGTCTCAGAA  
CTGCTGTGGTCACTTTTCGTCCCTTTTCACGGTGTATCAAGTAAGGTGGCTTCGTCTCTGTTTCATCGCCAACTAGGG  
GAAGCGAATGAGGAGTTTGCCTCCGTGTACAACAGCTGGTGGCCAAAGGAATTGGGCCAGACAGGGACACGGCTC  
ACTCCAGCTGACAAAGCAGAGCACATGAAGCGACAAAGACACCCCAAGATTGCGCCCCCAGTCAGCCAGTCTTCT  
TTCCCTCCCTCCCTGGTCTTCTCCTGATGTGCAACTGGCAACTCTGGCTCAGAGAGTCAAGGAAGTTTTGCCC  
CATGTGCCATTGGGTGTCTATCCAGAGAGACCTGGCCAAGACTGGCTGTGTAGACTTGACTATCACTAATCTGCTT  
GAGGGGGCCGTAGCTTTTCATGCCTGAAGACATCACCAAGGGAAGTCAAGTCCCTACCCACAGCCTCTGCCTCCAAG  
TTTCCCAGCTCTGGCCCGGTGACCCCTCAGCCAACAGCCCTAACATTTGCCAAGTCTTCTGGGCCCCGGCAGGAG  
AGCCTGCAGGAGCGCAAGCAAGCACTATATGAATACGCAAGAAGGAGATTCACAGAGAGACGAGCCAGGAGGCT  
GACTGAGCTCAAAGGAACAGGATGGCACCCAGAGCCGAGGACGGAGACTGGGGGCAGCCCTCACCCAACACACA  
ACAGGCTGGATGGGTGGGTGGTAAAAAGGGAAGGATGAGGCTCCCCCAATGTACATTAAATTCATGGTTTTCAT  
TC

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**FIGURE 801**

CGTGGATCCCGAGAAAGAGGCGCAGGACGAGGAGGCAGAACCCGACTGGCGCGTAGAGCAGCAGCACGAGCAGTA  
GGAAGCAGTCACCCGGAAGCCTGGGGGCGAGAGGCGAAGTGGTCAGGCGCCGAAGGCCGAGAGCACGCGGGGATC  
GGTCTCTTCCCGCCGGGTCTCTTACCGGTGCGAGTCAAAGAGCCGCTCCGGCCCCGGCCCTGAGGGGAAGCTCCAT  
AACTGCTGCTTCAGGAGCGCCCGCCGTCGCCGCCGCCGCCATTTTCGCGCCCGGCCGAGGGGCTCTTGGGAAG  
GCGGAGTCTTTGGGCATCCGCCCGGGGTGAGGGGACCCGAAGTCCTGAGGCGCGCCGGAAGGGCTAGCGGTCCCA  
GCATACCCCGCGGGCCCTTGGGCCGTCTCACAACCTCGCGTCCGGCGGAGACCACAATTCCCGGCATTTCGTGGGGC  
AGGGAGGAGTCGGCCTCCCGGAATCCTGGTCCCGGCGTGCACTTCTGAAGGACTTCAGGTACCGGCGTGCCCCGC  
GTCCTACTGTCCGCTGCTCGCGTCTGGGTGCCGCTCTGAGTAGGGCGGGCGAGGAGGCAGCCAAGGCGGAGC  
TGATGGCTGCGCCGAGGGCGGGGCGGGGTGCAGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATTTCGCT  
GGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAGGAACCTCTGACCCCGGGCCCGAG  
TGACTTATGGGACCCCACTCTCTGGGCCCGTTGTCTGTTGGGGTCACTGAACCCCGAGCATGCCTGACGCTCTG  
GGACCCCGGGTCCCGGGCACAACCTGACTGCGGTGACCCAGATACCAGGACCCGGGAGGCCTCAGAGAACTCTG  
GAACCCGTTTCGCGCGCTGGCTGGCGGTGGCGCTGGGGGGGAGTGTCTGTTGTTGTTGTTGTTGGGGCGGGG  
GTCGGGGTCTCCGGCCGTCCTCGCCGCCGTCCTAGCCCGCCGCCGCTTCTCCCCGAGTCAGTACAACCTTCA  
TCGCAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATATCGAGATCCTGGACCGGCACCCCTTCTTGGGCC  
GCGAGGTCCCTATCTCGAACGGCTCAGGATTCGTGGTGGCTGCCGATGGGCTCATTGTACCAACGCCCATGTGG  
TGGCTGATCGGCGCAGAGTCCGTGTGAGACTGCTAAGCGGCGACACGTATGAGGCCGTGGTCACAGCTGTGGATC  
CCGTGGCAGACATCGCAACGCTGAGGATTCAGACTAAGGAGCCTCTCCCCACGCTGCCTCTGGGACGCTCAGCTG  
ATGTCCGGCAAGGGGAGTTTGTGTTGCCATGGGAAGTCCCTTTGCACTGCAGAACACGATCACATCCGGCATTG  
TTAGCTCTGCTCAGCGTCCAGCCAGAGACCTGGGACTCCCCCAAACCAATGTGGAATACATTCAAACCTGATGCAG  
CTATTGATTTTGGAACTCTGGAGGTCCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTGAACACCATGAAGG  
TCACAGCTGGAATCTCCTTTGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGGGAAAAAGAAGATT  
CCTCCTCCGGAATCAGTGGGTCCAGCGGCGCTACATTGGGGTGATGATGCTGACCCTGAGTCCAGCATCCTTG  
CTGAACTACAGCTTCGAGAACCAAGCTTTCCCGATGTTTCAGCATGGTGTACTCATCCATAAAGTCATCCTGGGCT  
CCCCTGCACACCGGGCTGGTCTGCGGCCTGGTGATGTGATTTTGCCATTGGGGAGCAGATGGTACAAAATGCTG  
AAGATGTTTATGAAGCTGTTTCGAACCCAATCCCAGTTGGCAGTGCAGATCCGGCGGGGACGAGAAAACCTGACCT  
TATAIGTGACCCCTGAGGTACAGAAATGAATAGATCACCAAGAGTATGAGGCTCCTGCTCTGATTTCTCCTTGC  
CTTTCTGGCTGAGGTCTGAGGGCACCGAGACAGAGGGTTAAATGAACCAGTGGGGGACAGGTCCCTCCAACCACC  
AGCACTGACTCCTGGGCTCTGAAGAATCACAGAAACACTTTTTATATAAAATAAAATTATACCTAGCAACATATT  
ATAGTAAAAAATGAGGTGGGAGGGCTGGATCTTTTCCCCCACCAAAAGGCTAGAGGTAAAGCTGTATCCCCCTAA  
ACTTAGGGGAGATACTGGAGCTGACCATCCTGACCTCCTATTAAAGAAAATGAGCTGCTGAAAAAAAAAAAAAA  
A

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**FIGURE 802**

MAAPRAGRAGWSLRAWRALGGIRWGRRPRLTPDLRALLTSGTSDPRARV TYGTPSLWARLSVGVT EPRACLTSG  
TPGPRAQLTAVTPDTRTREASENSGTRSRRAWLAVALGAGGAVLLLLLWGGGRGPPAVLA AVPSPPPASPRSQYNFI  
ADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVADRRRRVRVRLLSGDTYEAVVTAVDP  
VADIATLRIQTKEPLPTLPLGRSADVRQGEFVVAMGSPFALQNTITSGIVSSAQRPARDLGLPQTNVEYIQTDA A  
IDFGNSGGPLVNLDGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNSSSGISGSQRRYIGVMMLT LSPSILA  
ELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQMVQNAEDVYEAVRTQSQLAVQIRRGRET LTL  
YVTPEVTE



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**FIGURE 803**

GCAACGCGAGTGGGAGCACCAGGATCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAAATGGCAGACA  
AACCAGACATGGGGGAAATCGCCAGCTTCGATAAGGCCAAGCTGAAGAAAACGGAGACGCAGGAGAAGAACACCC  
TGCCGACCAAAGAGACCATTGAGCAGGAGAAGCGGAGTGAAATTTCCTAAGATCCTGGAGGATTTCTACCCCCG  
TCCTCTTCGAGACCCAGTCGTGATGTGGAGGAAGAGCCACCTGCAAGATGGACACGAGCCACAAGCTGCACTGT  
GAACCTGGGCACTCCGCGCCGATGCCACCGGCCTGTGGGTCTCTGAAGGGACCCCCCCCCAATCGGACTGCCAAA  
TTCTCCGTTTGCCCCGGGATATTATAGAAAATTATTTGTATGAATAATGAAAATAAAACACACCTCGTGGCATG  
GCA

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**FIGURE 804**

MADKPDMGEIASFDKAKLKKTTETQEKNTLPTKETIEQEKRSIS

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**FIGURE 805**

CACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCAGAGCCCTGGTGGCCATGGGATAGGGAACCGCGGTG  
GCTTCCACGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCGGGAGTGGACGGGGCCGTGCCGAGGCCGCGG  
AGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCTGTACCAAGCTGGGCCGCTTGGTCAAGGACATGAA  
GATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAAGGAATCTGAGATCATTGATTTCTTCCTGGG  
GGACTCTCTCAAGGATGAGGTTTTGAAGATTATGCCGGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACCAGGTT  
CAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGC  
ACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCCAC  
CCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATCTCTAAGACCTACAGCTACCTGACCCCGACCTCTGGAA  
GGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCGGT  
GCAGCGGACCCAGGCTTCAGATGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCCTG

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**FIGURE 806**

CGCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGC**ATGT**TACACAGCCATTCCCCAGAGTGG  
CTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGTGGCGGGTGGAGAAGCTGAAGCCGGTGCCTGT  
GGCGCAAGAGAACCAGGGCGTCTTCTTCTCGGGGGACTCCTACCTAGTGCTGCACAATGGCCCAGAAGAGGTTTC  
CCATCTGCACCTGTGGATAGGCCAGCAGTCATCCCGGGATGAGCAGGGGGCCTGTGCCGTGCTGGCTGTGCACCT  
CAACACGCTGCTGGGAGAGCGGCCTGTGCAGCACCGCGAGGTGCAGGGCAATGAGTCTGACCTCTTCATGAGCTA  
CTTCCACGGGGCCTCAAGTACCAGGAAGGTGGTGTGGAGTCAGCATTTTACAAGACCTCCACAGGAGCCCCAGC  
TGCCATCAAGAACTCTACCAGGTGAAGGGGAAGAAGACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAG  
CTTCAACACTGGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACAT  
CCTGGAACGCAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGCAAGGCCCAGGTGGA  
GATTGTCACTGATGGGGAGGAGCCTGCTGAGATGATCCAGGTCCTGGGCCCCAAGCCTGCTCTGAAGGAGGGCAA  
CCCTGAGGAAGACCTCACAGCTGACAAGGCAAAATGCCCAGGCCGAGCTCTGTATAAGGTCTCTGATGCCACTGG  
ACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCCCCTTGCCCTTGAAGTGTGATATCTGATGACTGCTTTGT  
GCTGGACAACGGGCTCTGTGGCAAGATCTATATCTGGAAGGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGC  
CCTGCAGGTGGCCGAGGGCTTCATCTCGCGCATGCAGTACGCCCCGAACACTCAGGTGGAGATTCTGCCTCAGGG  
CCGTGAGAGTCCCATCTTCAAGCAATTTTCAAGGACTGGAA**TG**AGGGTGGGCGTCTTCCTGCCCCATGCTCCC  
CTGCCCCCACCACCTGCCTGCTTGCTTCTCTGGCTGCCTGGTCAGTGCAGAGGTGCCCCCTGCAGATGTTCAAT  
AAAGGAGACAAGTGCTTTCCC

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**FIGURE 807**

MYTAIPQSGSPFFGQSVQDPGLHVWRVEKLKPVVPAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQQSSRDEQG  
ACAVLAVHLNTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLYQVKGKKNIRA  
TERALNWDSEFNTGDCFILDGQNIFAWCGGKSNILERNKARDLALAIRDSERQGAQVEIVTDGEEPAEMIQVLG  
PKPALKEGNPEEDLTADKANAAALYKVSDATGQMNLTQVADSSPFALELLISDDCFVLDNGLCGKIYIWKGRK  
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGRESPIFKQFFKDWK

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**FIGURE 808**

GGCACGAGGCGCCCGCTGCTACGAGTAGAACGCTGTCCGAGCTTGCGCATTTCGCAGCCGCTGCCGCCCTCGCC  
GCTGCTCCTTCGTAAGGCCACTTCCGCACACCGACACCAACATGAACGGACAGCTCAACGGCTTCCACGAGGCGT  
TCATCGAGGAGGGCACATTCCCTTTTCACCTCAGAGTCGGTCGGGGAAGGCCACCCAGATAAGATTGTGACCAAA  
TCAGTGATGCTGTCCTTGATGCCCACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAACTGTTGCTAAAA  
CTGGAATGATCCTTCTTGCTGGGGAAATTACATCCAGAGCTGCTGTTGACTACCAGAAAGTGGTTTCGTGAAGCTG  
TTAAACACATTGGATATGATGATTCTTCCAAAGGTTTTGACTACAAGACTTGTAACGTGCTGGTAGCCTTGGAGC  
AACAGTCACCAGATATTGCTCAAGGTGTTTCATCTTGACAGAAATGAAGAAGACATTGGTGCTGGAGACCAGGGCT  
TAATGTTTGGCTATGCCACTGATGAAACTGAGGAGTGATGCCCTTAACCATTTGTCTTGGCACACAAGCTAAATG  
CCAACTGGCAGAACTACGCCGTAATGGCACTTTGCCCTTGTTTACGCCCTGATTCTAAAACTCAAGTTACTGTGC  
AGTATATGCAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTATATCTGTTTCAGCATGATGAAG  
AGGTTTGTCTTGATGAAATGAGGGATGCCCTAAAGGAGAAAGTCATCAAAGCAGTTGTGCCTGCGAAATACCTTG  
ATGAGGATACAATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCCTCAGGGTGATGCTGGTTTGA  
CTGGACGCAAAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGTGCCTTTTCAGGAAAGGATT  
ATACCAAGGTCGACCGTTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCCTTGTTAAAGGAGGTCTGTGCC  
GGAGGGTTCTTGTTTCAGGTCTCTTATGCTATTGGAGTTTCTCATCCATTATCTATCTCCATTTTCCATTATGGTA  
CCTCTCAGAAGAGTGAGAGAGAGCTATTAGAGATTGTGAAGAAGAATTTTCGATCTCCGCCCTGGGGTCATTGTCA  
GGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCAT  
GGGAAGTGCCCAAAAAGCTTAAATATTGAAAAGTGTTAGCCTTTTTTCCCCAGACTTGTTGGCGTAGGCTACAGAG  
AAGCCTTCAAGCTCTGAGGGAAAGGGCCCTCCTTCCTAAATTTTCTGTCTCTTTTCAGCTCCTGACCAGTTGCA  
GTCACCTCTAGTCAATGACATGAATTTTAGCTTTTGTGGGGGACTGTAAGTTGGGCTTGCTATTCTGTCCCTAGGT  
GTTTTGTTTACCATTATAATGAATTTAGTGAGCATAGGTGATCCATGTAAGTGCCTAGAAACAACACTGTAGTAA  
ATAATGCTTTGAAATTGAACCTTTGTGCCCTATCACCAACGCTCCAAAGTCATAATTGCATTGACTTTCCCCAC  
CAGATGCTGAAAATGTCCTTGTGATGTGCACGTAAAGTACTTGATGTTCCACTTATAGCCTCTGTCTGGCAATGC  
CACAGCCCTGTTCAGCATGAATTTGTAATGCTTGTGAGCTCTATTATGAATGTGAAGCCTTCCCCTTATCCTCCCTG  
TAACCTTGATCCATTTCTAATTATGTAGCTCTTTGTGAGGAGTGTTCCCTATCCAATCAATCTTGCATGTAACGC  
AAGTTCCAGTTGGAGCTCCAGCCTGACATCAAAAAAGGCAGTTACCATTAAACCATCTCCCTGGTGCTTATGCT  
CTTAATTGCCACCTCTAACAGCACCAAATCAAAATCTCTCCACTTTTCAGCTGTCTTTTGGAGGACGTACGTAATA  
AGGTTTTTAATTTAGTAAACCAATCCTATGCATGGTTTTCAGCACTAGCCAAACCTCACCAACTCCTAGTTCTAGAA  
AAACAGGCACCTTGGCAGCCTTGTGATGTCATACAGAGAAGTCACAGGGCAGTACCTGAGGGTCTGTAGGTTGCAC  
ACTTTGGTACCAGATAACTTTTTTTTTTCTTTATAAGAAAGCCTGAGTACTCCACACTGCACAATAACTCCTCCC  
AGGGTTTTAACTTTGTTTTATTTTCAAAACCAGGTCCAATGAGCTTTCTGAACAGCTGGTGTAGCTACAGAGAAA  
CCAGCTTCCTTCAGAGAGCAGTGCTTTTGGCGGGGAGGAGGAAATCCCTTCATACTTGAACGTTTTCTAATTGCT  
TATTTATTGTATTCTGGGGTATGGCGTAAGTACAGAGAAGCCATCACCTCAGATGGCAGCTTTTAAAAGATTTT  
TTTTTTTCTCTCAACACCATGATTCCCTTAAACAACATGTTTCCAGCATTTCCAGGTAGGCCAAGGTGTCCTACAG  
AAAAACCTTGGGTTAGACCTACAGGGGGTCTGGCTGGTGTTAACAGAAGGGAGGGCAGAGCTGGTGCGGCTGGCC  
ATGGAGAAAGCTGACTTGGCTGGTGTTACAGAGAAGCCAGCTTGTTTACATGCTTATTCATGACTGCTTGCC  
CTAAGCAGAAAGTGCCTTTTCAGGATCTATTTTGGAGGTTTATTACGTATGTCTGGTTCTCAATTTCAACAGTTT  
AATGAAGATCTAAATAAAATGCTAGGTTCTACCTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 809**

MNGQLNGFHEAFIEEGTFLFTSES VGE GHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGEITSRA  
AVDYQKVVREAVKHIGYDDSSKGF DYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFGYATDETEECM  
PLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLP IRVHTIVISVQHDEEVCLDEMRDALKEK  
VIKAVVPAKYLDEDTIYHLQPSGRFVIGGPQGDAGLTGRKIIVD TYGGWGAHGGGAFSGKD YTKVDRSAAYAARW  
VAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKKPIYQRTA  
AYGHFGRDSFPWEVPKKLKY

[illegible]



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**FIGURE 811**

MKHIPVLEDGPWKTVKVKELNGLKKLKRKGKEPARRANGYKTFRDLLEAPEPRAVATNGLRDRTHRLQPVPVPVP  
VFVPVAPAVPPRGGTDTAGERGGSSRAPEVSDARKRCFALGAVGPGLETPPPPPPPAPQSQAPGGPEAQPFREPGP  
RPRILLCAPPARPAPSAPPAPPAPPESTVRPAPPTRPGESSYSSISHVIYNNHQDSSASPRKRPGEATAASSEIK  
ALQQTRRLANARERTRVHTISAAFEALRKQVPCYSYGQKLSKLAILRIACNYILSLARLADLDYSADHSNLSFS  
ECVQRCTRILQAEGRAKKRKE

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**FIGURE 812**

GGCACGAGGGATGGCGGTTGTATCTGCTGTTTCGCTGGCTGGGCCTCCGCAGCAGGCTTGGCCAGCCGCTGACGGG  
TCGGCGGGCGGGTTTTGTGTGAACAGGCACGCAGCTGCAGATTTTATTCTGGTAGTGCAACCCTCTCAAAGGTTGA  
AGGAACTGATGTAACAGGGATTGAAGAAGTAGTAATTCCAAAAAGAAAAGTTGGGATAAAGTAGCCGTTCTTCA  
GGCACTTGCATCCACAGTAAACAGGGATACCACAGCTGTGCCTTATGTGTTTCAAGATGATCCTTACCTTATGCC  
AGCATCATCTTTGGAATCTCGTTTCAATTTTACTGGCAAAGAAATCCGGGGAGAATGTGGCCAAGTTTATTATTAA  
TTCATACCCCAAATATTTTCAGAAGGACATAGCTGAACCTCATATACCGTGTTTAAATGCCTGAGTACTTTGAACC  
TCAGATCAAAGACATAAGTGAAGCCGCCCTGAAGGAACGAATTGAGCTCAGAAAAGTCAAAGCCTCTGTGGACAT  
GTTTGATCAGCTTTTGAAGCAGGAACCACTGTGTCTCTTGAAACAACAATAGTCTCTTGGATTTATTGTGTTA  
CTATGGTGACCAGGAGCCCTCAACTGATTACCATTTTCAACAACTGGACAGTCAGAAGCATTGGAAGAGGAAAA  
TGATGAGACATCTAGGAGGAAAGCTGGTCATCAGTTTGGAGTTACATGGCGAGCAAAAAACAACGCTGAGAGAAT  
CTTTTCTCTAATGCCAGAGAAAAATGAACATTCCTATTGCACAATGATCCGAGGAATGGTGAAGCACCGAGCTTA  
TGAGCAGGCATTAACTTGTACACTGAGTTACTAAACAACAGACTCCATGCTGATGTATACACATTTAATGCATT  
GATTGAAGCAACAGTATGTGCGATAAATGAGAAATTTGAGGAAAAATGGAGTAAATACTGGAGCTGCTAAGACA  
CATGGTGTCACAGAAGGTGAAACCAATCTTCAGACTTTTAAATACCATTCTGAAATGTCTCCGAAGATTTTCATGT  
GTTTGCAAGATCGCCAGCCTTACAGGTTTTACGTGAAATGAAAGCCATTGGAATAGAACCCTCGCTTGCAACATA  
TCACCATATTATTTCGCTGTTTGATCAACCTGGAGACCCCTTAAAGAGATCATCCTTCATCATTTATGATATAAT  
GAATGAATTAATGGGAAAGAGATTTTCTCCAAAGGACCCGGATGATGATAAGTTTTTTTCAGTCAGCCATGAGCAT  
ATGCTCATCTCTCAGAGATCTAGAACTTGCTACCAAGTACATGGCCTTTTAAAAACCGGAGACAACCTGGAAATT  
CATTGGACCTGATCAACATCGTAATTTCTATTATTCCAAGTTCTTCGATTTGATTTGTCTAATGGAACAAATTGA  
TGTTACCTTGAAGTGGTATGAGGACCTGATACCTTCAGCCTACTTTCCCACTCCCAAACAATGATACATCTTCT  
CCAAGCATTGGATGTGGCCAATCGGCTAGAAGTGATTCTTAAATTTGGAAAGATAGTAAAGAATATGGTTCATAC  
TTTCCGCAGTGACCTGAGAGAAGAGATCCTGATGCTCATGGCAAGGGACAAGCACCCACCAGAGCTTCAGGTGGC  
ATTTGCTGACTGTGCTGCTGATATCAAATCTGCGTATGAAAGCCAACCCATCAGACAGACTGCTCAGGATTGGCC  
AGCCACCTCTCTCAACTGTATAGCTATCCTCTTTTTAAGGGCTGGGAGAACTCAGGAAGCCTGGAAAATGTTGGG  
GCTTTTCAGGAAGCATAATAAGATTCCTAGAAGTGAGTTGCTGAATGAGCTTATGGACAGTGCAAAAGTGTCTAA  
CAGCCCTTCCCAGGCCATTGAAGTAGTAGAGCTGGCAAGTGCCTTCAGCTTACCTATTTGTGAGGGCCTCACCCA  
GAGAGTAATGAGTGATTTTGCAATCAACCAGGAACAAAAGGAAGCCCTAAGTAATCTAACTGCATTGACCAGTGA  
CAGTGATACTGACAGCAGCAGTGACAGCGACAGTGACACCAGTGAAGGCCAAATGAAAGTGGAGATTGAGGAGCAG  
CAATGGTCTCACCATAGCTGCTGGAATCACACCTGAGAACTGAGATATACCAATATTTAACATTGTTACAAAGAA  
GAAAAGATACAGATTTGGTGAATTTGTTACTGTGAGGTACAGTCAGTACACAGCTGACTTATGTAGATTTAAGCT  
GCTAATATGCTACTTAACCATCTATTAATGCACCATTAAGGCTTAGCATTTAAGTAGCAACATTGCGGTTTTCA  
GACACATGGTGAGGTCCATGGCTCTTGTTCATCAGGATAAGCCTGCACACCTAGAGTGTGCGGTGAGCTGACCTCAC  
GATGCTGTCCTCGTGCGATTGCCCTCTCCTGCTGCTGGACTTCTGCCTTTGTTGGCCTGATGTGCTGCTGTGATG  
CTGGTCCTTCATCTTAGGTGTTTCATGCAGTTCTAACACAGTTGGGGTTGGGTCAATAGTTTCCCAATTTAGGAT  
ATTTGATGTGAGAAATAACGCATCTTAGGAATGACTAAACAAGATAATGGCAGTTTAGGCTGCACAACCTGGTAA  
AATGACTGTAGATAAATGTTGTAATTAGTGACACGTTTGTATTTTTGTTAATATAGCCGCTGCCATAGTTTTCT  
AACTTGAACAGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 813**

MVAQKVKNLQTFNTILKCLRRFHV FARSPALQVLREMKAIGIEPSLATYHHIIRLFDQPGDPLKRSSFIIYDIM  
NELMGKRFSPKDPDDDKFFQSAMSISSLRDLELAYQVHGLLKTGDNWKFIGPDQHRNFYYSKFFDLICLMEQID  
VTWKWYEDLIPSAYFPHSQTMIHLLQALDVANRLEVIPKIWKDSKEYGHTFRSDLREEILMLMARDKHPPPELQVA  
FADCAADIKSAYESQPIRQTAQDWPATSLNCIAILFLRAGRTQEAWKMLGLFRKHNKIPRSELLNELMDSAKVSN  
SPSQAIEVVELASAFSLPICEGLTQVRMSDFAINQEKEALSNTALTSDSDTDSSSDSDSDTSEGK

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**FIGURE 814**

ACGCGGGCACGCACACACGGAAGCACGCCTCCACTTAACTCGCGCCGCCGCGGCAGCTCGAGTCCACCAGCAGCG  
CCGTCCGCTTGACCGAGATGCTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCGCCAGAGTTGTCTCTGTG  
GGAAGTTTGTCTCCGTCCATTGCGACCATGCCGCAGATACTCTACTTCAGGCAGCTCTGGGTTGACTACTGGCA  
AAATTGCTGGAGCTGGCCTTTTGTGTTGTTGGTGGAGGTATTGGTGGCACTATCCTATATGCCAAATGGGATTCCC  
ATTTCCGGGAAAGTGTAGAGAAAACCATACCTTACTCAGACAAACTCTTCGAGATGGTTCTTGGTCCTGCAGCTT  
ATAATGTTCCATTGCCAAAGAAATCGATTAGTTCGGGTCCACTAAAAATCTCTAGTGTATCAGAAGTAATGAAAG  
AATCTAAACAGTCTGCCTCACAACTCCAAAAACAAAGGGAGATACTCCAGCTTCAGCAACAGCACCTACAGAAG  
CGGCTCAAATTATTTCTGCAGCAGGTGATACCCTGTCTGGTCCCAGCCCCTGCAGTTCAGCCTGAGGAATCTTTAA  
AAACTGATCACCTGAAATTGGTGAAGGAAAACCCACACCTGCACTTTCAGAAGAAGCATCCTCATCTTCTATAA  
GGGAGCGACCACCTGAAGAAGTTGCAGCTCGCCTTGACACAACAGGAAAAACAAGAACAAGTTAAATTGAGTCTC  
TAGCCAAGAGCTTAGAAGATGCTCTGAGGCAAACGTCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTG  
CGGTCCAGGCTGTCAATGCACACTCCAACATATTGAAAGCCGCCATGGACAATTCTGAGATTGCAGGCGAGAAGA  
AATCTGCTCAGTGGCGCACAGTGGAGGGTGCATTGAAGGAACGCAGAAAGGCAGTAGATGAAGCTGCCGATGCCC  
TTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAAATGCAAAGAAAAAGAGGTTGCTGGGG  
CCAAGCCTCATATAACTGCTGCAGAGGGTAACTTCACAACATGATAGTTGATCTGGATAATGTGGTCAAAAAGG  
TCCAAGCAGCTCAGTCTGAGGCTAAGGTTGTATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTA  
AACGAGAGCTGGACAGTATTACTCCAGAAGTCCTTCTGGATGGAAAGGAATGAGTGTTCAGACTTAGCTGACA  
AGCTCTCTACTGATGATCTGAACTCCCTCATTGCTCATGCACATCGTCGTATTGATCAGCTGAACAGAGAGCTGG  
CAGAACAGAAGGCCACCGAAAAGCAGCACATCACGTTAGCCTTGAGAGAAACAAAAGCTGGAAGAAAAGCGGGCAT  
TTGACTCTGCAGTAGCAAAAGCATTAGAACATCACAGAAAGTGAATACAGGCTGAACAGGACAGAAAGATAGAAG  
AAGTCAGAGATGCCATGGAAAATGAAATGAGAACCCAGCTTCGCCGACAGGCAGCTGCCACACTGATCACTTGC  
GAGATGTCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGCAGAACCTGTCTGAGAACTCTCTGAAC  
AAGAATTACAATTTCTGCTGCTCAGTCAAGAGCAAGTTGACAACCTTTACTCTGGATATAAATACTGCCTATGCCA  
GACTCAGAGGAATCGAACAGGCTGTTTCAAGGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCCCACCAACTCT  
GGCTTTCAGTGGAGGCATTAAAGTACAGCATGAAGACCTCATCTGCAGAAACACCTACTATCCCGCTGGGTAGTG  
CAGTTGAGGCCATCAAAGCCAAGTCTGATAATGAATTCACCCAAGCTTTAACCGCAGCTATCCCTCCAGAGT  
CCCTGACCCGTGGGGTGTACAGTGAAGAGACCTTAGAGCCGTTTCTATGCTGTTCAAAAAGTGGCCCGAAGGG  
TAGCAATGATTGATGAAACCAGAAATAGCTTGTACCAGTACTTCCTCTCCTACCTACAGTCCCTGCTCCTATTCC  
CACCTCAGCAACTGAAGCCGCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTACTGTCTATGCTT  
CCTATTGCATTGAGCATGGTGTCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAGACGAG  
TGGCACAGGACTGGCTGAAGGAAGCCCGAATGACCCTAGAAACGAAACAGATAGTGAAATCCTGACAGCATATG  
CCAGCGCCGTAGGAATAGGAACCACTCAGGTGCAGCCAGAGTGAAGGTTTAGGAAGATTTTCATAAAGTCATATTT  
CATGTCAAAGGAAATCAGCAGTGATAGATGAAGGGTTCGCAGCGAGAGTCCCGACTTGTCTAGAAATGAGCAGG  
TTTACAAGTACTGTTCTAAATGTTAACACCTGTTGCATTTATATTCTTTCCATTTGCTATCATGTGAGTGAACGC  
CAGGAGTGCTTTCTTTGCAACTTGTGTAACATTTTCTGTTTTTTCAGGTTTACTGATGAGGCTTGTGAGGCCAA  
TCAAAATAATGTTTGTGATCTCTACTACTGTTGATTTTGCCCTCGGAGCAAAGTGAATAAAGCAACAAGATG

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**FIGURE 815**

MLRACQLSGVTAAQSCLCGKFVLRPLRPCRRYSTSGSSGLTTGKIAGAGLLFVGGGIGGTILYAKWDSHFRESV  
EKTIPYSDKLFEMVLGPAAYNVPLPKKSIQSGPLKISSVSEVMKESKQSASQLQKQKGDTPASATAPTEAAQIIS  
AAGDTLSVPAPAVQPEESLKTDPHEIGEGKPTPALSEEASSSSIRERPPEEVAARLAQQEKQEQVKIESLAKSLE  
DALRQTASVTLQAIAAQNAAVQAVNAHSNILKAAMDNSEIAGEKKSAQWRVTEGALKERRKAVDEAADALLKAKE  
ELEKMKSVIENAKKKEVAGAKPHITAAEGKLHNMIVDLDNVVKVQAAQSEAKVVSQYHELVVQARDDFKRELD  
ITPEVLPGWKGMVSDLDLADKLSTDDLNSLIAHAHRRIDQLNRELAEQKATEKQHITLAEKQKLEEKRAFDSAVA  
KALEHHRSEIQAEQDRKIEEVRDAMENEMRTQLRRQAAHTDHLRDVLRVQEQELKSEFEQNLSEKLSEQELQFR  
RLSQEQVDNFTLDINTAYARLARGIEQAVQSHAVAEAEARKAHQLWLSVEALKYSMTSSAETPTIPLGSAVEAIK  
ANCSDFEFTQALTAIIPESLTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFLSYLQSLLLFPPQQLK  
PPPELCPEDINTFKLLSYASYCIEHGDLELAAKFVNQLKGESRRVAQDWLKEARMTLETQIVEILTAYASAVGI  
GTTQVQPE

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**FIGURE 816**

TAGTGCCGCCGCTCCCTACTCTGGGGGTGGGACTACCTCCTTTTCCGCGGGCCCCGCCAGGCGGCTGCCCCGTG  
ACCTGCCTGGGCGCGGGGAAGTGAAGCCGGAAGGGGCAAGACGGGTTCAAGTTCGTTCATGGGGCTGTTTGAAAG  
ACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAAGAAAGGAAATGAGAGTTGTTGAC  
AGGCAAATAAGGGATATCCAAAGAGAAGAAGAAAAAGTGAACGATCTGTGAAAGATGCTGCCAAGAAGGGCCAG  
AAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCAAGGAAGGCTGTGAGCAAGCTGTATGCATCCAAA  
GCACACATGAACTCAGTGCTCATGGGGATGAAGAACCAGCTCGCGGTCTTGCGAGTGGCTGGTTCCCTGCAGAAG  
AGCACAGAAGTGATGAAGGCCATGCAAAGTCTTGTGAAGATTCCAGAGATTACAGGCCACCATGAGGGAGTTGTCC  
AAAGAAATGATGAAGGCTGGGATCATAGAGGAGATGTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAGAA  
ATGGAGGAAGAAGCAGAAATGGAAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGGCCTTGGGCAAGCACCC  
AGTAAAGTGACTGATGCCCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAG  
GAAGAGGCTCTGGAGGCCATGCAGTCCCGGCTGGCCACACTCCGCAGCTAGGGGGCTGCCTACCCCGCTGGGTGTG  
CACACACTCCTCTCAAGAGCTGCCATTTTATGTGTCTCTTGCACTACACCTCTGTTGTGAGGACTACCATTTTGG  
AGAAGGTTCTGTTTGTCTCTTTTCACTCTCTGCCAGGTTTGGGATCGCAAAGGGATTGTTCTTATAAAAGTGG  
CATAAATAAATGCATCATTTTTAGGAGTATAGACAGATATATCTTATTGTGGGGAGGGGAAAGAAATCCATCTGC  
TCATGAAGCACTTCTGAAAATATAGGTGATTGCCCTGAATGTGAAGACTCTACTTTTGTCTATAAAACACTATAT  
AAATGAATTTTAAATAAATTTTTGCTTTAGCACTTGGCCCCATTGTAGATTGCCCTGTGCAGTAACTTTCAAGGT  
GTCGGCTGCCCCAGATTGCTTCACTTTGCTGGGTGTGGAAAGAGTTGCTATGGCCAGGCATATGGGATTGGAAGC  
TCAGCAGAAGTGACTTCTGCTCTGTGGTTGCTGCTCCCCGGCTTTCACAGACATGGTATGGCAGCCATTCTTTTA  
TCTATTTAAACCAAGAGGATGCTGGGGAAATTGTGCTGCTTGTCTGTTGGCTGGTGGCTGCATTATGTCCTGGGGT  
GTGCATGTGGGTCTATTTAGAGCTTCTGTCCCTTCCCTCCCATTTGCAAGTTGCACCCAGATGAGACAGCTGTAGT  
ACTAGGTCTCTTTACCTCTCATTGCCCTGTCCCTGCTTCGAGCTGGTTGTCTTGTGCGTGGGACATGGGCCTTCC  
TATCTGTGTTTTCTCAAAGTCAGGAGCTGACCAGGAGCACACTAAGGTGTGGTCATGCATCATAACCAACATTCA  
CTCATCTGGGACATTCTTAAGATACATTTATAAATCATTTTCAGCAGTAGTACTTTGTATGTGTTGAGAGTTTACA  
GAGCTCTTTGACATACGCGATCTTAGTCTTTACAAATAAGGAAAACAGCTCAGTTTGGGAAGTATCAGAGATGGG  
ATTCAAACCCAGATCCTCTGGTCCAAGTTGTATGTGCACTGAACATAATCAGGCAGGAAAAAGCCAGCCACTGT  
CTCACAGATTGTTTTTGTATATTGTAGCAAAATCCTGAAACAATGGGGTCTTCCAGTCTCATCATAAAAATG  
GCAATCTTGGCTGGGTGCGGTGGTTTCATGCCTATAATCCCAGTGCTTTACAAGGCTGAGGCAGGAGGCTCTCTTG  
AGAATAGGAGTTCAAGACCAGCCTGGGCAACATAGCAAGATCCTGTCTCTCCAAAAAAAAAAAAAAAAAAAAA  
AAAATTTCATTTTTGTAGTCCAGAGGACCTCCTATTACTCTTGATTTTCATCTTCAGAGTGTAGTTAAAAAATTAT  
TTTAAATAATTATTTTTTAAATCAGTTGTAGGTTACAGCAAAAGTGGACAAAAAGAAATTTCTCATATATCCC  
CTGCCCTCACACATGCATAGCCTCCCACTATCAGTATCCACACCAGAGTGGTACATTTGTTACAATCAATA  
AACCTCCATTGACACATCATTATCACCCAAAGTCCATAGTTTACATGAAGATTCACCTCTGGTGTGTACATTGTA  
TGGGCTTAGACAAATGTATGATGATATCTACAATTATAGAATCATACAGAATAGTTTCACTGCCCTAAAATTCT  
CTATGCTTACCTGTTTCATCCCTTTCTTCCCTAATCCCTGGCAACCACTTTAAAAAAAAAATTAGGTTACAGGGG  
GTACATGTGCAGGTAACTCGTGACAAGGGGGTTTGTATACAGATTATTTAGTGACCCAGGTACTAAGCCTAGT  
ACCCAATAGTTACTTTTCTGGTCTGTCCCTTTTCCACCCTCCACCCTCAGGTAGGCCCCAGTATGTTATTCCT  
TTGTGTCCATGTTATTTCACTCCCACTTGTGAGAACATGGAATATTTGGTTTCTGTTCCATGTTAGTTTGTTA  
AGGATAATGGCCTCCAGCCCCATCCATGTTCTGCAAAGGACATGATCTTTCTTTGGCAACCACTTTTACTGTC  
GCCATAGTTCTTCTTTTCTAGAATGTCATATTGGAATCATATAGTATGTAGCCTTTTCAGACTGGCTTCTTTCA  
CTTAATAATATGCAATTAAGGTTCTCCATGTCATTTTCATGGCTTAATAGTGCATTTATTTTAGCACTGAATAA  
TACTCCATTGTCTAGATGAATAGTTTATCCATTACCTATTGAAAGACTTCTGGTGGTTTCCAAGTTTGGCAA  
TTATGAATAAAGCTGTTGTAAACATCTTTGTGCAGGTTTTCTATGGGCATGTTTTTAATTCATTGAATAAATA  
CCAAGAGCTTCAGTGCTGGATCATA

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**FIGURE 817**

CAGGACACAGCATGGACATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCCCAGGTGCCAAAT  
GTGACATCCAGATGACCCAGTCTCCTTCCACCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGG  
CCAGTCAGAGTATTAGTAGCTGGTTGGCCTGGTATCAGCAGAAAACCAGGGAAAGCCCCTAAGCTCCTGATCTATA  
AGGCGTCTAGTTTAGAAAGTGGGGTCCCATCAAGGTTACGCGGCAGTGGATCTGGGACAGAATTCAGTCTCACCA  
TCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTATTCTCCACATGGACGT  
TCGGCCAAGGGACCAAGGTGGAAATCAAACGAAGTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATG  
AGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCT  
ACAGCCTCAGCAGCACCTTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCC  
ATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAGAGGGAGAAGTGCCCCCACCTGC  
TCCTCAGTTCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTCCACAGGGGACCTACCC

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**FIGURE 818**

GCGGCCGTTACGGCGCTCAGGCGTCTCGACGCGCGGATTTAAAACCAGCTCAGGAGACGCCAAGGAAAGATGGG  
ACCTCCCGGCCAGCACTGCCAGCCACAATGAATAACTCTTCTTCAGAGACGCGAGGACACCCCCACAGTGCCTC  
CTCTCCTTCAGAGCGTGTGTTCCCGATGCCCCTGCCAGGAAGGCGCCTCTCAATATTCTGGCACCCCAGTCCT  
CGAAGACTTTCTCAGAAATGACGATGAGAAGGAGCGGCTGCAGCGGAGGCGCTCGAGGGTCTTTGATCTGCAGTT  
CAGCACTGACTCAGCTCGCTTATTGGCCTCCCCCTCCAGCAGGAGTATTGACATTTAGCTACTATCCCCAAGTT  
TACAAACACGCAGATTACGGAACATTACTCCACCTGTATCAAAGTGTCCACTGAAAATAAAATCACTACCAAGAA  
TGCTTTTGGTTTGCAGTTGATTGATTTTATGTGAGAGATTCTTAAACAGAAAGACACCGAACCAACCAACTTTAA  
AGTGGCTGCGGGTACTCTGGATGCCAGCACCAAGATCTATGCTGTGCGCGTGGATGCCGTCCATGCCGATGTATA  
CAGAGTCCTTGGGGGGCTGGGCAAAGATGCACCGTCTTTGGAAGAAGTAGAAGGCCATGTTGCTGATGGAAGTGC  
TACTGAAATGGGAACAACCAAAAAGGCTGTAAAGCCAAAGAAGAAGCACTTACACAGAACTATTGAGCAGAACAT  
AAACAACCTCAATGTCTCCGAAGCAGATCGGAAGTGTGAGATTGATCCCATGTTTCAGAAGACAGCAGCCTCATT  
TGATGAGTGCAGCACAGCAGGGGTGTTTCTGTCCACTCTCCACTGCCAGGACTACAGAAAGTGAAGTGTGTTTCC  
CTCTGATGTCCAGACTCTCTCCACGGGAGAACCTCTCGAGTTGCCAGAGTTAGGTTGTGTAGAAATGACAGATT  
AAAAGCGCCCTTGACAGAGTGTGCAGAAAGATCGCCAGATCTGCCCTTCCCTGGCCGGGTTCAGTTTACACAGTG  
GGACAGTGAAACACATAATGAGTCTGTGTGCGCCCTGGTAGACAAGTTTAAGAAGAATGACCAGGTATTTGACAT  
CAATGCTGAAGTTGACGAGAGTGAAGTGTGGAGACTTCCCGATGGGTCCCTGGGGGATGACTTTGATGCCAACGA  
TGAACCTGACCACACCGCAGTTGGGGATCATGAAGAGTTGAGGAGCTGGAAGGAGCCCTGCCAGGTTGAGAGCTG  
CCAGGAAGAAATGATTTCCCTTGGGGATGGAGACATCAGGACCATGTGCCCCCTTCTGTCTATGAAACCTGGAGA  
ATATTCTTATTTAGTCTCGGACCATGTGATGTGGGCTGGCCCGGATCACTGGCGCTTTAGGCCTCGACGCAA  
ACAAGATGCTCCTTCCCAATCAGAAAAAAGAGTACAAAAAAGATTTTGAATGACTTTGAAGATGA  
TATTGACTTTGATGTATATTTTAGAAAAACAAAGGCTGCTACTATTCTGACCAAGTCCACTTTGGAGAACCAGAA  
TTGGAGAGCTACCACCCTTCTACAGATTTCAACTACAATGTTGACACTCTGGTCCAGCTTCACCTCAAACCAGG  
CACCAGGTTACTTAAGATGGCCCAGGGCCATAGGGTAGAGACTGAGCATTATGAAGAAATTGAAGACTATGATTA  
CAACAACCTAACGACACCTCCAACCTTTTGCCCTGGATTACAGGCTGCTGACAGTGAAGATTGATGA  
CTTATTTGTGGGACCTGTTGGGAACCTCTGACCTCTCACCTTATCCTTGCCATCCACCTAAGACAGCACAAACAGAA  
TGGTGACACTCCAGAAGCCCAAGGATTAGACATCACAAACATATGGGGAGTCAAACCTGGTAGCTGAGCCTCAGAA  
GGTAAATAAAATTGAAATTCAGTATGCCAAGACTGCCAAAAAGATGGACATGAAGAACTGAAGCAGAGCATGTG  
GAGTCTGCTGACAGCGCTCTCCGGAAAGGAGGCAGATGCAGAGGCAAACACAGGGAAGCTGGAAAAGAAGCGGC  
CCTGGCAGAAAGTGGCTGACGAGAAGATGCTTAGCGGGCTCACGAAGGACCTGCAGAGGAGCCTGCCCCCTGTCAT  
GGCTCAGAACCTCTCCATACCTCTGGCTTTTGCTGTCTCCTACATTTAGCCAATGAAAAGAATCTAAACTGGA  
AGGAACAGAGGACCTCTCTGATGTTCTTGTGAGGCAAGGAGATTGAGTTCACTATGGAGAAGTCAGCAGCAGGAG  
GCCCATCCCTTACTCAGTTGCCGGGACATCCCCAGTCTCGGGGGAAGAAGATGCCATGGGCTTATACCCAGGCTG  
TAGCCAACCTACCAACGTGCCTGTTTGTGTTGTGCTCTTCTCTCCATCATAGTCTGGGTGCCAGCGCCCTG  
AAGCTCCGTGCTCAACTGATTAACTTTACTGCCCTATGGTGACCATCTAGGAGAGGGGAGGGCAGAGGGGGTGA  
GGGTACTATTCTGGATTGAGAAAACCTATATCCATTCTTTATATCAATGTATAGTTTTAGTCTCCTAAATTGATC  
TGTTATTTTCCAACTATTCTCTTGTAGAAAAATTTCCAGTGGGCACCTAATGGTGCCCTTGAAGAAGTTCCTAA  
TCCATGTACATAAAATACATCATATGTACACTTATAAATGTATATAGAATGCTCAAAAAATAAAATTCTTAATAAT  
AGAAGTGGCAAAATA



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**FIGURE 819**

MGPPGPALPATMNNSSSETRGHPSASSPSERVFPMPPLPRKAPLNIPGTPVLEDFPQNDDEKERLQRRRSRVFDL  
QFSTDSPRLASPSSRSIDISATIPKFTNTQITEHYSTCIKLSTENKITTKNAFGLHLIDFMSEILKQKDTEPTN  
FKVAAGTLDASTKIYAVRVDHAVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTKAVKPKKKHLHRTIEQ  
NINNINVSEADRKCEIDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLFPQTLSTGEPELELPELGCVEMT  
DLKAPLQQCAEDRQICPSLAGFQFTQWDSETHNESVSALVDKFKKNDQVFDINAEVDESDCGDFPDGSLGDDFDA  
NDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRTMCPLLSMKPGEYSYFSPRTMSMWAGPDHWRFRPR  
RKQDAPSQSENKKKSTKKDFEIDFEDDIDFDVYFRKTKAATILTKSTLENQNRATTLPDFFNYNVDTLVQLHLK  
PGTRLLKMAQGHRVETEHYEEIEDYDYNPNPNDTSNFCPGLQAADSDDDLDDLFVGPVGNSDLSPYPCHPPKTAQ  
QNGDTPEAQGLDITTYGESNLVAEPQKVNKIEIHYAKTAKKMDMKKLKQSMWSLLTALSGKEADAEANHREAGKE  
AALAEVADEKMLSGTLTKDLQSLPFPVMAQNLSIPLAFACLLHLANEKNLKLEGTEDLSDVLRQGD

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**FIGURE 820A**

TTCCAAGAAGAAGGATTTGCACCCTCGGGATATTGATGCATTTTGGCTGCAGCGGCAGCTCAGTCGTTTCTATGA  
TGATGCCATCGTGTGCGAGAAGAAGGCAGATGAAGTATTGGAGATTTTGAAGACGGCCAGTGATGATCGGGAATG  
TGAAAATCAGCTGGTTCTGCTGCTTGGTTTCAACACCTTTGATTTTATTAAAGTGTTCGGCAGCACAGGATGAT  
GATTTTATACTGTACCTTGCTGGCCAGTGACAAAAGTGAAGCTGAAAAGGAAAGGATTATGGGAAAGATGGAAGC  
TGACCCAGAGCTATCCAAGTTCTCTACCAGCTTCATGAAACCGAGAAGGAGGATCTGATCCGAGAGGAAAGGTC  
CCGGAGAGAGCGAGTGCCTCAGTCTCGAATGGACACAGATCTGGAACCATGGATCTCGACCAGGGTGGAGAGGC  
ACTGGCTCCACGGCAGGTTCTGGACTTGGAGGACCTGGTTTTTACCCAAGGGAGCCACTTTATGGCCAATAAACG  
CTGTCAGCTTCTGATGGATCCTTCCGTCGCCAGCGTAAGGGCTATGAAGAGGTGCATGTGCCTGCTCTGAAGCC  
CAAGCCCTTTGGCTCAGAAGAACAACCTGCTTCCAGTGGAAAAGCTGCCAAAGTATGCCCAGGCTGGGTTTGAGGG  
CTTCAAAACACTGAATCGGATCCAGAGTAAGCTCTACCGTGCTGCCCTTGAGACGGATGAGAATCTGCTGCTGTG  
TGCTCCTACTGGTGCTGGGAAGACCAACGTGGCCCTGATGTGCATGCTCCGAGAGATTGGGAAACACATAAACAT  
GGACGGCACCATCAATGTGGATGACTTCAAGATTATCTACATTGCCCCATGCGCTCCTTGGTGAGGAGATGGT  
GGGCAGCTTTGGAAAGCGCCTGGCCACTTATGGCATCACTGTTGCTGAACTGACTGGGGACCACCAGCTGTGCAA  
AGAAGAGATCAGTGCCACTCAGATCATCGTCTGCACCCCCGAGAAGTGGGACATCATCACCCGCAAGGGTGGTGA  
GCGCACCTACACCCAGCTGGTGCGGCTCATCATTCTGGATGAGATTCTCTTCTCCACGATGACAGAGGTCTGT  
CTTAGAAGCTTTAGTGGCCAGGGCCATCCGAAACATTGAGATGACCCAAGAGGATGTCCGACTCATTGGTCTCAG  
TGCCACCCTACCCAATATGAAGATGTAGCCACCTTTCTACGTGTTGACCCTGCCAAGGGTCTCTTTTACTTTGA  
CAACAGCTTCCGTCAGTGCTCTGGAACAGACATATGTGGGTATCACAGAGAAAAAGCTATCAAGCGTTTCCA  
GATCATGAATGAAATCGTCTATGAAAAATCATGGAACATGCTGGAAAAATCAGGTGCTGGTGTGTTGTCCACTC  
CCGGAAGGAGACTGGAAAGACAGCCAGGGCCATCCGGGACATGTGCCTAGAAAAGGACACTCTGGGTCTGTTTCT  
GAGGGAGGGCTCAGCCTCCACAGAACTCTGCGAACAGAAGCTGAGCAGTGCAAGAACCTAGAGCTGAAGGATCT  
TCTGCCTTATGGCTTTGCTATTTCATCACGCAGGCATGACCAGGGTTGACCGAACACTCGTGGAGGATCTTTTTGC  
TGATAAACATATTTCAGGTTTTAGTTTCCACAGCAACTCTAGCTTGGGGTGTGAATCTCCCTGCACATACAGTCAT  
CATCAAAGGCACCCAGGTGTACAGTCCAGAGAAGGGGCGTTGGACAGAAGTGGGAGCACTGGACATTCTGCAGAT  
GCTGGGACGTGCCGAAGACCCCAAGTATGACACCAAGGGTGAAGGCATACTCATCACATCTCATGGGGAGCTACA  
GTACTACCTGTCCCTCCTCAATCAACAACCTTCTATTGAAAGCCAGATGGTTTCAAAGCTTCTGCATGCTCAA  
TGCAGAAATCGTGCTAGGAAATGTCCAGAATGCCAAGGATGCGGTGAAGTGGCTGGGCTATGCCTACCTCTATAT  
CCGAATGCTGCGATCCCCAACCTCTATGGCATCTCTCATGATGACCTCAAGGGAGATCCCTGCTGGACCAGCG  
CCGACTAGATCTGGTTTACATACAGCTGCCCTGATGCTGGACAAGAACAATCTGGTCAAGTACGACAAGAAGACGGG  
CAACTTCCAGGTGACAGAAGTGGGCCGTATAGCCAGCCACTACTACATACCAATGATACAGTGCAGACTTACAA  
CCAGCTGCTGAAGCCACCTGAGTGAGATTGAGCTTTTTCAGGGTCTTCTCATTGTCTCTGAGTTCAAGAACAT  
CACAGTGAGAGAGGAGGAGAAGCTGGAGCTGCAGAAGTTGCTGGAGAGGGTGCCTATCCCTGTAAAGGAGAGCAT  
TGAGGAACCCAGTGCTAAGATCAACGTTCTTCTGCAAGCCTTCATCTCACAGCTGAAATTGGAGGGCTTTGCACT  
GATGGCTGACATGGTGTATGTACACAGTCGGCTGGCCGGTTGATGCGAGCGATATTTGAAATTGTCTGAACCG  
AGGTTGGGCACAGCTTACAGACAAGACCTGAACCTCTGCAAGATGATCGACAAACGCATGTGGCAGTCCATGTG  
TCCTCTGCGCCAGTTCCGGAACTCCCTGAGGAAGTAGTGAAGAAGATTGAGAAGAAGAATTTCCCTTTGAGCG  
TCTGTACGACCTGAATCATAATGAGATTGGGGAGCTTATCCGATGCCAAAGATGGGGAAGACCATCCACAAATA  
TGTCATCTGTTTTCCAAGTTGGAGTTGTCAGTGCACCTGCAGCCTATCACACGCTCCACCCTGAAGGTGGAGCT  
GACCATCACGCCAGACTTCCAGTGGGATGAAAAGGTGCAIGGTTTCATCCGAGGCTTTTTTGGATTCTGGTGGAGGA  
TGTGGACAGCGAGGTGATTCTGCACCATGAGTATTTTCTCCTCAAGGCCAAGTACGCCCAGGACGAGCACCTCAT  
TACATTCTTCGTGCTGTCTTTGAACCGCTGCCCCCTCAGTACTTCATCCGAGTGGTGTCTGACCGCTGGCTCTC  
TTGTGAGACCCAGCTGCCTGTCTCCTTCCGGCACCTGATCTTGCCGGAGAAGTACCCCCCTCAACCGAAGCTTTT  
GGACCTGCAGCCCTTGCCCGTGTCTGCTCTGAGAAACAGTGCCTTTGAGAGTCTTTACCAAGATAAATTTCTTTT  
CTTCAATCCCATCCAGACCCAGGTGTTTAAACACTGTATAACAAGTACGACAACGTGTTTGTGGGGGCCCCCAG  
GGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCCATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGT  
GTACATCACCCCATGGAGGCCCTGGCAGAGCAGGTATACATGGACTGGTACGAGAAGTTCAGGACAGGCTCAA  
CAAGAAGGTGGTACTCTGACAGGCGAGACCAGCACAGACCTGAAGCTGCTGGGCAAAGGGAACATTATCATCAG  
CACCCCTGAGAAGTGGGACATACTTTCCGGCGATGGAAGCAGCGCAAGAAGCTGCAGAACATCAACCTCTTCGT

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**FIGURE 820B**

GGTGGATGAGGTCCACCTTATCGGGGGCGAGAATGGGCCTGTCTTAGAAGTGATCTGCTCCCGAATGCGCTACAT  
CTCCTCCCAGATTGAGCGGCCCATTCGCATTGTGGCACTCAGCTCTTCGCTCTCCAATGCCAAGGATGTGGCCCA  
CTGGCTGGGCTGCAGTGCCACCTCCACCTTCAACTTCCATCCCAATGTGCGTCCCGTCCCGTTGGAGCTGCACAT  
CCAGGGCTTCAACATCAGCCATACACAAACCCGCCTGCTCTCCATGGCCAAGCCTGTGTACCATGCTATCACAA  
GCACTCGCCCAAGAAGCCTGTCATTGTCTTTGTGCCGTCTCGCAAGCAGACCCGCCTCACTGCCATTGACATCCT  
CACCACCTGTGCAGCAGACATCCAACGGCAGAGTTCTTGCACTGCACCGAGAAGGATCTGATTCCGTACCTGGA  
GAAGCTAAGTGACAGCACGCTCAAGGAAACGCTGCTAAATGGGGTGGGCTACCTGCATGAGGGGCTCAGCCCAT  
GGAGCGACGCCTGGTGGAGCAGCTCTTCAGCTCAGGGGCTATCCAGGTGGTGGTGGCTTCTCGGAGTCTCTGCTG  
GGGCATGAACGTGGCTGCCCACCTGGTAATCATCATGGATACCCAGTACTACAATGGCAAGATCCACGCCTATGT  
GGATTACCCCATCTATGACGTGCTTCAGATGGTGGGCCACGCCAACCGCCCTTTGCAGGACGATGAGGGGCGCTG  
TGTATCATGTGTGTCAGGGCTCCAAGAAGGATTTCTTCAAGAAGTTCTTATATGAGCCATTGCCAGTAGAATCTCA  
CCTGGACCACTGTATGCATGACCACTTCAATGCTGAGATCGTCACCAAGACCATTGAGAACAAGCAGGATGCTGT  
GGACTACCTCACCTGGACCTTTCTGTACCGCCGCATGACACAGAACCCCAATTACTACAACCTGCAGGGCATCTC  
CCATCGTCACTTGTCTGGACCACTTGTGAGAGCTGGTGGAGCAGACCTGAGTGACCTGGAGCAGTCCAAGTGCAT  
CAGCATCGAGGACGAGATGGACGTGGCGCCTCTGAACCTAGGCATGATCGCCGCCCTACTATTACATCAACTACAC  
CACCATTGAGCTCTTCAGCATGTCCCTCAATGCCAAGACCAAGGTGCGAGGGCTTATCGAGATCATCTCCAATGC  
AGCAGAGTATGAGAACATTCCCATCCGGCACCATGAAGACAATCTCCTGAGGCAGTTGGCTCAGAAGGTCCCCCA  
CAAGCTGAATAACCCTAAGTTCAATGATCCGCACGTCAAGACCAACCTGCTCCTGCAGGCTCACTTGTCTCGCAT  
GCAGCTGAGTGCTGAGTTGCAGTCAGATACGGAGGAAATCCTTAGTAAGGCAATCCGGCTCATCCAGGCCTGCGT  
GGATGTCTTTCCAGCAATGGGTGGCTCAGCCCTGCTCTGGCAGCTATGGAACCTGGCCAGATGGTCAACCAAGC  
CATGTGGTCCAAGGACTCATACCTGAAGCAGCTGCCACACTTACCTCTGAGCATATCAAACGTTGCACAGACAA  
GGGAGTGGAGAGTGTTCGACATCATGGAGATGGAGGATGAAGAACGGAACGCGTTGCTTCAGCTGACTGACAG  
CCAGATTGCAGATGTGGCTCGCTTTTGTAAACCGCTACCCTAATATCGAACTATCTTATGAGGTGGTAGATAAGGA  
CAGCATCCGCAGTGGCGGGCCAGTTGTGGTGCTGGTGCAGCTGGAGCGAGAGGAGGAAGTCACAGGCCCTGTCTAT  
TGCGCTCTCTTCCCCGAGAAACGTGAAGAGGGCTGGTGGGTGGTGGTGGAGATGCCAAGTCCAATAGCCTCAT  
CTCCATCAAGAGGCTGACCTTGCAGCAGAAGGCCAAGGTGAAGTTGGACTTTGTGGCCCCAGCCACTGGTGGCCA  
CAACTACACTCTGTACTTCATGAGTGACGCTTACATGGGATGTGACCAGGAGTACAAATTCAGCGTGGATGTGAA  
AGAAGCTGAGACAGACAGTGATTGAGATTGAGTCTGAGGCATTTACTTTTGGGTAAAGGAGAGTTGAGCCTGAA  
TTAGGAATGTGTACATTGTAGGAATCCTGGTTGTGGGGACCAGGTCTGTGGGCCTCAGGTCTGGCCAGCCAGGGC  
TGGTGTGTCCCCGCCTACCTCCACTTCCTTTCCCTTGCTCACTCTGGATCCAGTGACAGCAGGTGTCTATGGGTC  
AAGCATAAATCATATATAGCATTTTCAGGCATGTTCTGGTAGTTCTTTTGTGAGTCTGACATTCTAATAAAATAAT  
TTGTAGAAACC

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**FIGURE 821**

MADV TARS LQY EY KANS NLVLQADRSLIDRTRRDEPTGEVLSLVGKLEGTRMGDKAQRTPQMQEERRAKRRKRDE  
EDRHDINKMKGYTLLSEGIDEMVGIIYKPKTKETRETYEVLLSFIQAALGDQPRDILCGAADEVLA VLKNEKLRD  
KERRKEIDLLLQQTDDTRYHVLVNLGKKITDYGGDK EIQNMDDNIDETYGVNVQFESDEEEGEDVDYGEVREEAS  
DDDMEGDEAVVRCTLSANLVASGELMSSKKKDLHPRDIDAFWLQRLSRFYDDAIVSQKKADEVLEILKTASDDR  
ECENQLVLLLGFNTFDFIKVLRQHRMILYCTLLASAQSEAEKERIMGKMEADPELSKFLYQLHETEKEDLIREE  
RSRRERVRQSRMDTDLETMDLDQGGEALAPRQVLDLEDLVFTQGS HFMAN KRCQLPDG SFRRQRKGYEEVHVPAL  
KPKPFGSEEQLLPVEKLPKYAQAGFEGFKTLNRIQSKLYRAALETDENLLLCAPTGAGKT NVALMCMLREIGKHI  
NMDGTINVD DFKI IYIAPMRS LVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIVCTPEKWDIITRKG  
GERTYTQLVRLIILDEIHLLHDDRGPVLEALVARAIRNIEMTQEDVRLIGLSATLPNYEDVATFLRVDPAKGLFY  
FDNSFRPVPLEQTYVGITEKKAIRFQIMNEIVYEKIMEHAGKNQVLVVFHSRKETGKTARAI RDMCLEKDTLGL  
FLREGSASTEVLRTEAEQCKNLELKDLLPYGFAIHHAGMTRVDRTLVEDL FADKHIQVLVSTATLAWGVNLP AHT  
V I I KGTQVYSPEKGRWTEL GALDILQMLGRAGRPQYDTK GEGILITSHGELQYYLSLLNQQLPIESQMVSKLPDM  
LNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLLDQRRRLDVHTAALMLDKNNLVKYDKK  
TGNFQVTELGR IASHYYITNDTVQTYNQLLKPTLSEIE LFRVFSLSSEFKNITVREEEKL ELQKLLERVPIPVKE  
SIEEPSAKINVL LQAFISQLKLEGFALMADMVYVTSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQS  
MCPLRQFRKLPEEVVKKIEKKNEPFERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPI TRSTLKV  
ELTITPDFQWDEKVGHSSEAFWILVEDVDSEVILHHEYFLLKAKYAQDEHLITFFVPVFEP LPPQYFIRVSDRW  
LSCETQLPVSFRLHILPEKYPPPTELLDLQPLPV SALRNSAFESLYQDKFPFFNP IQTQVFNTVYNSDDNVFVGA  
PTGSGKTICAEFAILRMLLQSSEGRCVYITPMEALAEQVYMDWYEKFQDRLNKKVLLTGETSTD LKLLGKGNI I  
ISTPEKWDILSRRWKQRKNVQINL FVVDEVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSL SNAKDV  
AHLWGCSATSTFNFHPNVRPVPLELHIQGFNISHTQTRLLSMAKPVYHAITKHSPKKPVIVFVPSRKQTRLT AID  
ILTTCAADIQRQRF LHCTEKD LIPYLEKLS DSTLKETLLNGVGYLHEGLSPMERRLVEQLFSSGAIQV VVASRSL  
CWGMNVA AHLVIIMDTQYYNGKIHAYVDYPIYDVLQMVGHANRPLQDDEGR CVIMCQGSKKDFFKKFLYEPLPVE  
SHLDHCMHDHFN AEIVTKTIENKQDAVDYLTWTFLYRRMTQNP NYYNLQGISHRHLS DHLSELVEQTLSDLEQSK  
CISIEDEM DVA PLNLGMIAAYYYINYTTIELFSMSLNAKTKVRGLIEIISNAAEYENIPIRHHEDNLLRQLAQKV  
PHKLNNPKFN DPHVKTNLL LQAHL SRMQLSAELQSDTEEILSKAIRLIQACVDVLSSNGWLSPALAAMELAQMVT  
QAMWSKDSY LKQLPHFTSEHIKRC TDKGVESVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVD  
KDSIRSGGPVVVLVQLERE E E V TGPVIAPLFPQKREEGWWVIGDAKSNLSISIKRLTLQQKAKVKLDFVAPATG  
AHNYTLYFMSDAYMGCDQ EYKFSVDVKEAETDSDSD

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**FIGURE 822**

GTTTCCATCCCTCCTCTGGAGGCTTTTGAAGTCACCGGGAGACAGATGTGCTCTGTGGCAGGCAGGGGAGTGGGG  
GTGCTCAGGCACCTTGGGAGGTCTGGGAGCTCCTCAGTGTGACCGCTGGGACCCACCAGGACTTTTTCCTTTGTCA  
GAAGCCTTTGGTTGCTTTGCTGCTCTGCATGTGTCACTGTGGAGGGGCAATAGAGCAAGGCCTTACATGGCATGG  
TCATTTCTCGGGCCCAGGAGGCTTAGAGGCCTGCCCCCTGGCGCTCAAGTATTGAACCAGAACCATGGGGTGGCAC  
TGAAGCCTCCTCACCACATCATGATAAATAACGGGGACATTACAGAGCAGGCACTGTTTTCCTCAGTCCATGGCT  
GAGTACATCACCGGTGTTTTCTCTCTTATTCCTCCCATCAAGCCTAAAAGGAATCTCTATTGGAGATACTGCCAT  
TAGTGTTCCCTTTTATAGGTGAGGAAGTGAAGGCATAGAGGGTTCCCAGTTGAACCAACTGATAAATAGTAGAACT  
TGGATTTTAATTCAGTCTTGATGCCAGGGATAAGGCTCTTACTTTCTACCTTAGGCTATTTCTAGGAAACGCAGG  
AGAGTGTTGAAGGGGCAGAGAAAGGGATCCAGTTCCTTTCTGTCCCGCATCCTAGTCCCTGAGAAGCAAAGAAGA  
ATGTGTGGCTTCTTTTGCTTTGCTTTTGTGTGCATCCACACATCTCCAGGGGACCTGGGCTCTTGATCTTGCC  
TCTTCCCCTTTAACTGTTAAGTGGGAGCAGGTAAGGGGGTACAGTAGGGCTGGCCTGGAGTTAGAGGCTTGATG  
CCTTAGCTCCTCTGTCTGCACTCCAGAACTGCCTGACTTCATTTCTGTATGTTGTCTTTGTTTTGACAATTGATC  
CATGTCCCAGTCCGTCTCTTCTTCTTCTTGATACTTACACTGCTTCTTTCTGTTGGTTTTCCAGTGTTTAACACT  
GTATACAACAGTGACGACAACGTGTTTGTGGGGGGCCCCACGGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCC  
ATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGTGTACATCACCCCATGGAGGCCCTGGCAGAGCAG  
GTATGACGTGGCGCTGTGTGCATGTGAATTTCCCAAGAAGCATTTCATCTGTGATTCCGTATGAAGGCTTTCTAAG  
CCCTGAAATTTGCAGGGTCATTTCTCAGTTTGTGTATTAAAGAAAAGCTGCCCCAGCCAAGCGTGGTGGCTCAC  
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCTCCGGAGATCAGGAGTTTCGAGACCAGCCTGGCC  
AACATGGTGAAACCCTGTCTCTACTAAAAATACAGAAATTAGCTGGGCGTGGTGGTGTGCGCCTGTAATCCCAGC  
TACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGTTCGCACCACT  
GCACTCCAGCCTGGGCAACAAGAGCGAGACTTCATCTCA

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**FIGURE 823**

GCGGAAGGCGCGGGAGCTTGCGTGCTGCTGGGCCTGAGCTGCTGTCTCGTTTCTGTCCGCGCGCCCTGCATCCC  
GGCCCCGGGCGCCCGCTGGAGGTCGCCGAGGAGCCACAGGGCTGACTGGTCTGCTGCCCGGGCCAGGAGTGCCT  
GGTGTAGCAGTCGCGGAGCCATCCCGGCGTCTGCTGCCATGACCGACTCTCCCTCAGAGGAGACTCTTCCTCAG  
CGGTGGCTGCAGAGACAGATGAGCGGCGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCTGTGGCCGGCCATTTAG  
GGGACGCTGCGACCACCGCCTGCGCCCCCTCCGGACTGGTTCCTTGGGCCCCGGAAGCTCGCGGCGGGCCCTGCG  
GGAGGCGGCATGCTCCCGCGGAGGCTGCTGGCCGCCTGGCTGGCGGGGACGCGGGGCGGGGGCCTGCTGGCGCTT  
CTGGCCAATCAGTGCCGCTTCGTACGGGCCTGCGCGTGCGGCGCGCAGCAGATCGCGCAGCTCTACGGCCGC  
CTCTACTCCGAGAGCTACGCCGCGTTCCTCTCGGCCGCTTCTGGCGCCGGCTGCACGGCCGCTCTGGCCATGCC  
TCTGCCTTGATGGCGGCGTTAGCCGGCGTCTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTTGCAGAGA  
TCTATTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCACCTCCA  
GAACCAAAAGCCCAACAGAAGGGAATGAAGATTCAGAGGGCAAAGAGCAACGTTGGGAAATGGTGATGGATAAG  
AAACACTTTAAGCTGTGGCGGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAACTACACA  
GATGTGACACCTCGGCAGTTCTTCAATGTTTCAGCTGGACACAGAGTATAGAAAAAATGGGATGCCCTGGTAATC  
AAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAACCCATTTTCCTTATCCA  
ATGTACTCACGGGATTATGTTTATGTTTCGGCGGTATAGTGTGGATCAGGAAAACAACATGATGGTGTGGTGTGCG  
CGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCTGTCAGGGTCAGATCATATGAATCCCAAATGGTT  
ATCCGTCCCCACAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACATACAGTGACAATCCCCAAACGGTG  
TTTCCTCGCTACTGTGTTAGTTGGATGGTTTCCAGTGGCATGCCAGATTTCTGAGAGAAGCTGCACATGGCCACT  
CTGAAAGCCAAGAATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAGTGAAGCC  
AAGGCCACCAGCCAGTCCCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGCTTGACAG  
GCTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTTATCACTCTGCTGTAGAAGGGGGACA  
TGCCACATGTATTAGAAGGCATCTGCTGTAACCTCCAGTGCAAGATAATTCAATAACTGATGTCCCATTTTCATTC  
AGAGCCCTTATTGCTCTTATCAAACAGAAGAAGGCTACATTTGTGGGAGTGTGTGCATATTCTCAGGCCAACTG  
TTTTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAAGGGGATGACCTCCAT  
TTGCTTCTCTGAGTAGTTTCTCTGCTGACATTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGATTTCCTTC  
AGTTCTCCAGGTCCACCTGGAAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAGTGCTCTT  
GGTAACAATCATGATGTGAATGGGTGTGAACGATACTTGGCTATGTTAAGTGCCTTGTCCGCACCTTGCTTTTAT  
CTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTAAAGTAGAGATGGAGTTTCACTCTGTTTCCCAGGCT  
GGTCTTGAACCTCTGGGCCATGCCTGGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCCTGCACAA  
TATACCCATTGACTCACCTTATCCAAAGCAAGTTTCCTGTGAATCGGCCAGTTCTTCTATATTCAATTGGATCAT  
TGCCTCCTTCCTAACCTTCCCCATTTACCAAGAACTGGGAGACTAATCCTTTTAGATAGTAGCTTTTTTGATGC  
TCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAATTGAGCAG  
GATTCTACCCTAGTCCGATTGTATAGAAAACACCATTTTGATTACAGGTATTATTTTTTCATATTTACAGGTTTGACT  
TGTTCTTTTCAGAAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGGAGCTCTCAGATCTACAGACAA  
GCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATACAGTGGAGATTTGGTTTATGTTACCATTAAAGT  
TCCTCTAAAAAGTTTTTCTCCTCTCTTCAGAGCCAAAATAAAAGTGAACCTACACTGTTTCAGATAAGGTCACAAT  
CTGATGCTGTGAGTTTGACCGAGCTGGTTTTGCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGGATCAAGT  
TTTAAATCCTCCTCCTTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTTGTGTTTTGTTTTGTTTTGTTTT  
CCTGCTTGCTACTGTTTTGTGGTGTGAAAAGTGGTTTAAACCTGAGACTAAGTTAAACACTTCCTTGACCTTCT  
TGTTGCCTGTTCAATTTTTGTGCCAAGGAAGTAGCTGCCCCAGTGTATGTCTTGCTTCTCCGCGTCATTGTGGA  
AGAGGAGAGATGCATCGAGCAGTCCCAGCTGCTTTTCATTTATTACTTCTTCTTTCCAGGACCTGACAGAAGTCA  
GGGAAGAGTCCCTGGGTTATGTCCAAACTTAGCACCTGCAATTGTTGGGATGTGGATGTGTGCATAAGAGA  
GAGAGAGAATATGTGTGTGTGTGTGCGTCTGCGAGCGCACACATGCACAAGTGCGAAGGAGTTGCGGTTGC  
TCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGGTCTGTCTGTACAGTTACTCATGTCTATTGTAATGA  
TTTCACTCCTAACTGTGACATTTTTATCAAATGTGTGAATAAATACATAAAGATTGGTAC

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**FIGURE 824A**

CGCGCTTAGGGATCCGGCCGTGGCCGAGCGCGCGGCCGTAAGACCGCGGGTGACTAGCATGCAGATACCCATGCT  
CTGACTTTCTGCCCTCCACTGACATGGCCCCACCGGGGTGGGGAGAGGGACTTCCAGACTTCAGCTCGACGCATG  
GGCACCTCGCTGCTCTTCCAGCTTTTCAGTGCATGAACGGGAGCTGGACCTGGTTTTTCTGGATCATAGCTATGCC  
AAGCCTTGGAGTGGCCACCCAGATGCCAGTAGTGCCCGCCCCACCCGCATGCTCTTTGTCACTCCCCGGCGGCAG  
CACGAAAGTACCATTGAATCAGACGTCCCAATAGATGTGGAGACGGTCACATCAACGCCTATGCCACTCTATGAC  
AATCAGAAGGCACGCAGCGTGATGAATGAGTGTGAACGGCATGTCATCTTTGCCAGGACTGATGCAGATGCCCCCT  
CCTCCACCAGAGGACTGGGAGGAGCATGTCAACAGGACTGGCTGGACAATGGCCCAGAACAAGCTATTCAACAAG  
ATCCTCAAAGCCCTGCAGTCTGACCGGCTTGCCCGCTTGGCCAACGAAGGGGCTTGTAATGAGCCAGTGCTGCGC  
CGTGTGTGCTGTGGACAAGTGTGCAAGGAGAGTGCAGGCTCTGGCAAGTGTGAGCTGGGATACCAAGCTGATC  
CAGTGGCTGCACACCACCCTTGTGGAGACCTTGAGTCTGCCCATGCTGGCAGCCTACCTGGATGCTTTGCAGACG  
CTGAAGGGGAAGATCCCAACCTTGATTGACCGGATGCTTGTGTATCCAACACAAAGACTGGGGCTGCAGGAGCT  
GAGGCCTTGTCTCTCCTACTGAAGAGGCCCTGGGACCCTGCTGTGGGTGTGCTTTCTCATAACAAACCAAGCAAA  
CTCCCTGGCTCTCCGCTGATTCTCATCGCCTCCTCTGGTCCCTCCAGCTCTGTGTTTCCCACTTCACGCCGCCAC  
CGCTTCTGGCAATCTCAGCTGTCTGCTTGGGCAAGTCTCCCTGTAGCCACCCATCTGCTGAACAATGGCAGT  
GGGGTAGGAGTTCTACAGTGTCTCGAGCATATGATTGGGGCAGTGAGAAGCAAAGTGTGGAGATTACAGCCCAT  
TTCCACACAAACCCATTATCTTGATTGGCTGGAACACAGGAGCTTTGGTGGCCTGTCATGTGTGAGTAATGGAG  
TATGTCACTGCAGTTGTCTGCCTTGGGTTTCTCTGCTTACTGTGGATGGCCCCAGAGGGGATGTAGATGATCCC  
CTCTTGGATATGAAGACTCCAGTCTCTTTGTCTTGGTCCAGTAATCCCTTCAATGTCACCCCTGAAGCCATGGAG  
GACTTCCGGGAGAAGATTTCAGCTGAGAACAGCTTGGTGGTGGTGGGGGAGCTGATGACAATCTCAGAATAAGC  
AAAGCAAAGAAGAAATCAGAAGGGTTGACTCAGAGCATGGTGGACAGATGTATTCAGGATGAGATTGTGGACTTT  
CTGACTGGAGTGCTCACTCGTGCTGAGGGTCACATGGGCTCTGAACCTCGGGATCAGGATGCTGAGAAGAAGAAG  
AAGCCCCGCGATGTGGCCCCGAGAGACTTGGCCTTTGAAGTCCCTGAGCGGGGAGTGCACCTGCCTCCTCCAGCT  
GCCAAGCTGCCCCGCTCACCTCAGGCTCAGAGGATCTCTCCAGTGTGTCCAGCAGCCCCACCTCCAGTCCCAAG  
ACCAAAGTGACCACAGTGACCTCTGCCCAGAAGTCCAGTCCAGATTGGAAGTTCTCAGCTGCTGAAGAGACATGTG  
CAGCGGACAGAAGCTGTGCTGACCCACAAACAAGCTCAAGCACAGTTTGTGCTTTTCTGAAACAAAATATGCTG  
GTGAGGAAAGCTCTTCTCTCTGGCACCTCCTCCTGTCTCTTTGTTCCCATTTTCATCAGAACCACCAGAGGAAGGA  
GAGAAAGAGGATCTTAGGGTTTCAGCTGAAGCGACACCATCCCTCGAGTCCCTTCTGTCAGTAAGACCTCCAAA  
CGACCGAAGATCAAGGTGTCCCTTATCTCCCAAGGGGACACAGCTGGAGGGCCTTGTGCTCCTTCCCAAGGAAGT  
GCTCCAGAAGCTGCAGGTGGGAAGCCCATCACCATGACACTGGGGCAGGCTTCAGCAGGGGCCAAGGAGCTCACA  
GGACTTCTCACCACAGCCAAGTCCAGTTCTTCTGAAGGTGGAGTCTCAGCCAGCCCAGTCCCTTCAGTGGTCTCC  
AGCAGCACTGCACCCAGTGCCCTTGACACACTGCAGAGCCGCCTGGTGGCCACATCTCCTGGCAGCTCCCTCCCA  
GGGGCCACATCAGCCAGCAGCCTCCTCCAAGGCCTCAGCTTCAGCTTGAGGATATCAGCAGCAAGACCTCTGGC  
CTTCCAGCAAATCCCTCCCCAGGACCAGCCCCACAGGCTTGAAGGTCCCCACCACCATTACTCTGACACTTCGTG  
GCCAGCCGAGCAGGATCACTACACTGAGCCCTATGGGCTCAGGAGCAGCCCCATCCGAGGAGTCTCTTCCCAGG  
TGCTGCCCTCCAGCTCACAGCGCCTGCCTCCAGCACCTGAAGATGCTGTGTGATATGTCTCTTACCAAGTTG  
GTGATGGCTGCCTCATGGTGGGCCCTGGACAGGTGTGTGGTCTGCTGAGCTGTCCACGTGTGCGAAGACCTGTT  
TAAGACAGTCATTTTTGCCTCTCCGCCAAGTGTCTTCAGAGAAACCATTAGGTTAGGTGATACGGTGCCAGCAAG  
GGAAGCACCATCGTCCAGGATCTGCAAATCTGGTTCTGGGAACCCAGACTCCTCAGCAGATCTGGCTGTACAT  
GGATCAGAACCCTTCTTCCCCCGCTTAAGCTGTGGTTTGACCCAAGGGTCAGCATATAGGACTGCCTGCTGCAT  
TTAATGAAGGTGTTTCTTTTGGAAAGTCTGTGCTACCCTCTGCGCCTAGTTGGGAGGAGACATCCATCTGGTCTG  
GGATTTCCGGAGTTAGAATGGAAGCTCTTTGCTAAAGACTGGAGTCATCCTGGCCTGCCAACTGGTGGTTTCAGA  
GCCGGACGGGCTTGTGTTTGGACATCACTGTTGCCTTCACTCAGCAGCCACGGGAGAGTGCTCCCCATGCAACTCC  
ACCTTAGAAACCACGTCAGATACTGAGTAGCTTGCTGACTCCTGGAAACTTCTGGTTTTTGTAGTATCATAATG  
AAGGCAAAGAGAACTAGGCTGTCTCTTTTCCAGCTCTTTGACTTACTCTAGATGTTGGGAGCAGTGGTTGCCAGG  
TGAAACCTGGGCCCTTTGTCTTTTTTACCATGCTTTGGGCAGTTTCTGTATCCAGAGAGTCCGCAGGTTTCAGATA  
AGCTGAAGAAGAGTAATAGAACAGCAAAGGAAGTGGCTTGAAGGATGTGCTAGTAAGCCCTGTGGTTTGTGCTTA  
GGTCTCTGCTCTGCTACCCAAGGAAGTGGTGGTTTCAGCTGGAGATAAAAAGAAGAATTTGCCAAGTCAGAGAAGA  
AACCCCAACCCCGGAAAATCCTCTGTCTCCAGTCTCTGGAGGTGAAGCAGGGACAATAAGCTAAGGTAGTATCTT

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**FIGURE 824B**

GGCCATCCCAGGAACTTGTGGCATTAGGACGATGAAGGCCATGCTTCAGTGTTTTCGTTTCTATTTTCATGAGAC  
TTTTTGTCTTCCTGCTTACAAGTGGGAAGATGATTGACAGTGACTCTACTATGCAGGGCTGTTGGTACCAACCTG  
AGCCCTATAGGTGGCAGTCCCTGGAGAAGTGGTCACAGAAGATGGAGCTCTGATCCCCTGCTTACCTCTTCACAA  
CACTTGTGTGCAAAGATAGTTTTAGATTTGGTTTAGAAGCTATCCTCCAGAACAGGCTCCCATACTTAGAATGTT  
TCTAGTTAAGGTAATAAATTAGGCAACCCAAGTGTGACTCCACTCAAGTGTCTTTTTCTGTAGGCAGGAAGGGCC  
CACAACATGGCTTAAATGTAGTCCATGGTTCTGGCCACAGTACAGTGTGTATCTATAACCAGGTCACCTGTGTT  
CAATCTGGGAGCCTTCTTGCCAGTCTGAGTGGCAGCCAGAAGGGAGCTCATAGTGTCTAGGAGTCTCAGGCAAG  
GTAGGTCAGGGTACTGTGGGCAGGGGGGATGTGTGTGATAGGAGAGGGTACCCTAAACCCCATACCTTCCCTCCC  
TGACCTGAAAAGCTGATCTCAACAGGGATTACACAGAATTAGGCTGTGTTTTTGCATTAGCTGGTAGGTGACTT  
TCTCAAATTTCTTAAATTCAGAAAGTATTTAGTAACTTGAGGAAGGTATGAAATCTGGAGGAGGCATCCAGGAC  
CCAGGGGTTTGATAGCTTTACAGGTAGGATCATACCACACCAAAGAGCAGTGGACAATAAGACTATATGAGCTA  
TATGAAGCTTTTAGGAATCATTTAGGACAGACAGAGCCCTAAACAACCCATTTCATGACTTAAGTTGTTGGCTCAG  
TGTATGCTGGGGACAAAGAAAACTAACAAGCCGACCTGCCTTTATGATAAATTCTAGTGTGCTTACAAGGGATG  
ACTTCCTGAGGTGTGATCTGTCCACCTTGAAGAACTCCACAACCTGAAGAAGGGGAGCTGTGAGAACGTGGATTGT  
TCTACAACCTTGCACAGGGTAACAGAGGAAGTGGCTGAGGCCTAGAGTCACGTTTTCCAGTTCCCTTTCGCAAACTA  
TATTTCTTGGAACGCGAAAGGAAGCTTTACCTATTTTCATAGAAGACCTGGAATCCATAACCTCAGAAGGCAATAT  
TATTGATAGAAAATGTGGAAGGATCAGGAAGTTCTTAGATTCTTGGATGACAGATGCATGTTGATGCCCTATGGA  
GATGTCCTTGTGTTTTGAGGTCACTGAGGTAGGAAGACCTGTCTACTCTTGGTTTCCACTAGAACAGTCTTGG  
GCTGGATGGGTTATAGAGCTGAGCGGCTGTGATGGTTCTGTTTTTACATTAACAAAAACAATTAACAAACACCAA  
AAC



**FIGURE 825**

[illegible]

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**FIGURE 826**

MYLSAICEYQLEEIQRVFEGPYKEYHEEAQKWDRYTDPVPSRPGSCINNWHRRHGYTSSLELPDNI LN FVKKHP  
LMEEQVGPRWSRPLL VKKG TNFTHLVADRV TGLDGATYTVLFIDTGDGWLLKAVSLGPVWHLIEELQLFDQEPMR  
SLVLSQSKKLLFAGSRSQLVQLPVADCMKYRSCADCVLARDPYCAWSVNTSRCVAVGGHSGSLLIQHVMTSDTSG  
ICNLRGSKKVRPTPKNITVVAGTDLVLPCHLSSNLAHARWTFGGRDLP AEQPGSFLYDARLQALVVM AAQPRHAG  
AYHCFSEEQGARLAAEGYLVAVVAGPSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGA  
KATERTLVYPLELPKEPTSPFFRCPCEPDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPPPGIPGQPLPSP  
TRLHLGGGRNSNANGYVRLQLGGEDRGGLGHPLPELADELRRKLQQRQPLPDSNPEESSV

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**FIGURE 827**

CGGAAGTTTTGCTGCTAGTCGCGGACGCAATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGG  
CCCTGAGGGCTCGCGGCCCCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTCCCACTGATG  
AAGAGCAGGCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACTGG  
CCCCAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAGAATAGTAGGCT  
GCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGAGGCCAGCGATGCCCCGCT  
GTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACACTTGAGCACCTGCACTAAATTACTCAAAATGTGCTG  
TAAAGTTTCTTCTTTCCAGTAAAGACTAGCCATTGCATTGGCTCCTTCTCCATAAAAAAAAAAAAAAAAAA

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**FIGURE 828**

MASRLRGAGTLAAQALRARGPSGAAAMRSMASGGGVPTDEEQATGLEREIMLAAKKGLDPYNVLAPKGASGTRE  
DPNLVPSISNKRIVGCICEEDNTSVVFWLHKGEAQRCPRCGAHYKLVQQLAH

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**FIGURE 829**

TTGCAGCCGCCGGCAGCTACTGCAAGGCAAAAGCCGGAGTGGACGTGTCTTTTGAAACTGCTGCTCTTTCAC TTC  
TCAGGCGTCACCGAGAGCTCAGCACCCAGGCTGAACTCTGTACCATTTGGAAGAATGGAAGCTGATGCATCTGTT  
GACATGTTTTCCAAAGTCCTGGAGCATCAGCTGCTTCAGACTACCAAACCTGGTGGAAGAACATTTGGATTCTGAA  
ATTCAAAAACCTGGATCAGATGGATGAGGATGAATTGGAACGCCTTAAAGAAAAGAGACTCCAGGCACTAAGGAAA  
GCTCAACAGCAGAAACAAGAATGGCTTTCTAAAGGACATGGGGAATACAGAGAAATCCCTAGTGAAAGAGACTTT  
TTTCAAGAAGTCAAGGAGAGTGAAAATGTGGTTTGCCATTTCTACAGAGACTCCACATTCAGGTGTAAAATACTA  
GACAGACATCTGGCAATATTGTCCAAGAAACACCTCGAGACCAAATTTTGAAGCTGAATGTGGAAAAAGCACCT  
TTCCTTTGTGAGAGACTGCATATCAAAGTCATTCCCACACTAGCACTGCTAAAAGATGGGAAAACACAAGATTAT  
GTTGTTGGGTTTACTGACCTAGGAAATACAGATGACTTCACCACAGAACTTTAGAATGGAGGCTCGGTTCTTCT  
GACATTCTTAATTACAGTGGAAATTTAATGGAGCCACCATTTCAGAACCAAAGAAATTTGGAACAACTTCACA  
AAGCTGGAAAAGAAAACATCCGAGGAAAGAAATATGATTCAGACTCTGATGATGATTAGAGCTCAATAATTCTT  
TGTAATTTGTCTTTTTTTTTCTGCTTCAGATTTAAATGTGTTTTTAAAATTCTATTAATGTCTATACATTGGTCA  
CCTAAATACTCATATTCTCGAGTTTTATACAGTTGTATCACATCGAAAAGTGCTTTACTGTTTTCTGTGTGGCC  
ATCATGTTTTAAGTTGAGGAAAACCTCAGTTCTTAATTAATCTGGAAGGGTCTGGATTCTCTATTTTTGAGATTGA  
CTTTATCACAATATGATTCTTACATCTTTATACCATTTACAATTGTGTTTTAGATCTACAGAGTTAGAAATTCGA  
AACTATTCCAGGACTAATTCTTAATCGGCATTATTTATACAAGAGGTCAAGTAACATTTACTAGCGCAATACTG  
CACTTGTAATGAATTATAAACGCTCTTCTGGAATATATTTAAATAACCATTAAAGAACTGCTTATTCATTCTGG  
ACACTGCATGTTGATGTTGAATCAACTGATGCCAGCAGAAAGCTATTTTGATTTGTGAACATACTGCCTTATTTA  
AAGGGTCCTGATTGCTTGTATTTTAAGACATTCATTAAAAAGAAACCAGGAAACACTTTTGAAATAACAGCATAA  
GGAACCTTCACTGTCTCTGCTCAATAAAATACCTGTAACCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 830**

MEADASVDMFSKVLEHQLLQTTKLVEEHL DSEIQKLDQMDEDELERLKEKRLQALRKAQQQKQEWLSKGHGEYRE  
IPSERDFFQEVKESENVVCHFYRDSTFRCKILDRHLAILSKKHLETKFLKLNVEKAPFLCERLHIKVIPTLALLK  
DGKTQDYVVGFTDLGNITDDFTTETLEWRLGSSDILNYSGNLMEPPFQNQKKFGTNFTKLEKKTIRGKKYDSDSDD  
D

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**FIGURE 831A**

CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAGAGCTGAGCGGAGACCAAAGTCAGC  
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAAG  
AAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGGCTGCAGAAATAGAAGGA  
GCTGGTGTCTGCCAAAGAACAGGAGCCTCAAAAGTCAAAAGGGAAAAAGAAAAAGAGAAAAAAAGCAGGACTTT  
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAACT  
GTTGCAGTGAAGCCAACAAGAAAAAATGAAGAGGAATTACCTCAAAAGATAAAAAAAGAAAGGACAGAAAGGGC  
AAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAATCAAAAAAGACTGCAAAA  
CCGAAAGTGAAATGTACTCTGGGAGTGATGATGATGATGATTTTAACTTCTCTAAAAAGCTAAAGGGAAA  
GCTCAAAATCAAATAAGAAGTGGGATGGGTGAGAGGAGGATGAGGATAACAGTAAAAAATTAAAGAGCGTTCA  
AGAATAAATTCTTCTGGTGAAAGTGGTGATGAATCAGATGAATTTTGAATCTAGAAAAGGACAGAAAAAAAT  
CAGAAAAACAAGCCAGGTCTTAACATAGAAAAGTGGGAATGAAGATGATGACGCCTCCTTCAAAATTAAGACAGTG  
GCCCCAAAAGAAGGCAGAAAAAGAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAACTGCGGAAGCTG  
AAAGAAAAAGAAGAGTTAGAAACAGGTAAAAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAA  
GAACTGTAAATCCAAAGTGACTGTTGATACTGGAGTAATTCCTGCCTCTGAAGAGAAAGCAGAGACTCCCACA  
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAGATAAGAAGAAAAAGAAAGGAGAAAAAGGAAGAAAA  
GAGAAAGAGAAGAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG  
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAACGGCTTGAAGAATTAGAAGCCAAGCGTAAAGAA  
GAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAGAAAGAACGCTTGAAAAAA  
GAAGGGAAACTTTTTAACTAAATCCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAACTGCTACAAGCT  
CAGGGTGTGTAAGTGCCATCAAAGACTCTTTGCCAAAGAAGAGGCCAATTTATGAAGATAAAAAAGAGGAAAAAA  
ATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA  
GGAGTACCAGAAAAGGAAGAGACACCACCTCCTGTTGAACCAGAAGAAGAAGATACTGAGGATGCTGGATTG  
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACAAAGTTCATATAGAAGTAAAA  
GAAAACCTTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG  
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTCAGGGAAAGACA  
TTAGATAAAAAGCCAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAAGAGAA  
AGGGCTTATGACAAAGCAAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAAG  
CTAAGAGCCCCATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATTCTAGATAAGCTCCGTCAC  
ACACATGTACAAGATGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCCACCAATGTTCTCTTGAAGCTATT  
AATGAACAGACTAAGATGATTAATAATTTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT  
CCTGGGCATGAATCTTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT  
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAATGTCCCTTCATTGTT  
GCACTCAATAAGATTGATAGGTTATATGATTGGAAGAAAGAGTCTGACTCTGATGTGGCTGCTACTTTAAAGAAAG  
CAGAAAAAGAATACAAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGGTTTG  
AATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGCCTTTTGTGCTTTTGGTACCTACCTCTGCACATACTGGT  
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT  
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCCGGGGATGGGCACCACTATAGATGTCATCTTGATC  
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCTCGAGTAGAAGGGCCATTGTAAGTCAAGATTGAGGC  
CTCCTGTTACCTCCTCTATGAAGGAATTACGAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCT  
CAGGGGGTAAAGATTCTTGGAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTTGTGGCTTATAAAGAA  
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA  
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAAGTG  
CCCTATGCAGGAATTAACATTGGCCAGTGATGATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC  
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA  
GTTAGAATTTTTAGTGCAGAAATTATTTATCATTATTTGATGCCTTTACAAAATATAGACAAGACTACAAGAAA  
CAGAAACAAGAAGAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAATCCTCCCTCAGTACATTTTTAAT  
TCTCGAGATCCGATAGTGATGGGGGTGACGGTGGAAGCAGGTGAGGTGAAACAGGGGACACCCATGTGTGTCCCA  
AGCAAAAATTTTGTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAAA

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**FIGURE 831B**

GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAATGTTTGGAAGACATTTTGAAGCT  
ACAGATATTCTTGTTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG  
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTGAAATCATCTAATTTTTTCACATGGAGCAGGAA  
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAAATGGAACAGACGTATTTGGACA  
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAACTTACAC  
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC  
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGATCTAAAGCTCTTTC  
GATTTTATACTGATTAAATCAGTACTGCAGTATTTGATTAACC



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**FIGURE 832**

CTTCCTTTCCAAC TTGGACGCTGCAGAAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAAAGGGCCGTTCTGCC  
ATCAACGAAGTGGTAACCCGAGAATACACCATCAACATTCACAAGCGCATCCATGGAGTGGGCTTCAAGAAGCGT  
GCACCTCGGGCACTCAAAGAGATTCGGAAATTTGCCATGAAGGAGATGGGAACTCCAGATGTGCGCATTGACACC  
AGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGGAATGTGCCATACCGAATCCGTGTGCGGCTGTCCAGAAAA  
CGTAATGAGGATGAAGATTCACCAAATAAGCTATATACTTTGGTTACCTATGTACCTGTTACCACTTTCAAAAAT  
CTACAGACAGTCAATGTGGATGAGAACTAATAATCGCTGATCGTCAGATCAAATAAAGTTATAAAATTGC

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**FIGURE 833**

MAPAKKGGEKKKGRSAINVVTREY TINIHKRIHGVGFKKRAPRALKEIRKFAMKEMGTPDVRI DTRLNKAVWAK  
GIRNVPYRIRVRLSRKRNEDEDSPNKLYTLVTYVPVTTFKNLQTVNV DEN

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**FIGURE 834**

ATGCCCGGCGGAGGGGCGAGCGCGGCGTCTGGCCGGCTTCTACCGCCGCGGAGCAAAGAGGGTCCCGGGAAGCG  
GCAGGGTTCGGCGTCCAGGAGCGGGCTTCGGGGGCTCCGGCGGCGGAGAGGCGGAGCAAGCGGGCCCCGGGTCCGGG  
AGCGGAGGCCCTGGGGGCCCCGCGGGCAGGATGAGCTTGACCCCGAAGGAGCTCTCGAGCCTGCTGAGCATCATA  
TCGGAGGAGGCGGGCGGCGGCAGCACCTTCGAGGGCCTGTCCACCGCCTTCACCACTACTTCAGCAAGGCCGAC  
CACTTCCGCCTGGGCTCGGTGCTCGTCACTGCTGCCAGCAGCCGACCTGCTGCCTAGCGCGGCGCAGCGCCTC  
ACGGCGCTCTACCTGCTCTGGGAGATGTACCGCACCGAGCCGCTGGCCGCCAACCCCTTCGCCGCCAGCTTCGCG  
CACCTGCTCAACCCCGCGCGCCCCGCGGCGGCCAGGAACCCGACCGCCCTCCGCTCTCAGGATTTTTACCT  
CCTATAACTCCACCAGAAAAGTTTTTCTTTCCAGCTGATGCTGGCACCCCCACGGGAACCTTCAAAAAGACG  
CCTCGCCAGATTGCACTGATGGACGTTGGAAACATGGGCCAGTCTGTGGACATTAGTGGGCTTCAGTTAGCCTTG  
GCCGAACGCCAATCTGAATTGCCAACGCAAAGCAAAGCGAGCTTCCCCAGTATTCTCAGTGACCCAGACCCGGAT  
TCTTCTAATTCTGGATTTGACAGCTCAGTTGCCTCTCAGATCACAGAAGCTTTAGTCAGCGGACCAAAGCCACCT  
ATTGAAAGCCATTTTCGACCAGAGTTTATTCGTCCACCGCCTCCACTCCACATTTGTGAGGATGAACTTGCTTGG  
CTAAACCCACGGAGCCTGACCACGCGATCCAGTGGGATAAATCGATGTGTGTTAAGAATAGCACTGGTGTGGAG  
ATCAAACGAATAATGGCCAAAGCCTTCAAAAAGCCCTTATCCTCTCCCCAACAAACACAGCTACTTGGTGAGTTG  
GAAAAAGACCCCAAACCTTGTCTACCATATTGGCCTCACCCAGCCAAACTTCCTGACCTTGTTGGAAAAACAACCCT  
TTAGTCGCTATAGAAATGTTGCTGAAATTAATGCAGTCAAGCCAGATCACTGAGTATTTCTCTGTCTTGGTCAAT  
ATGGACATGTCTTTACATTCAATGGAAGTTGTAATCGACTAACTACAGCTGTTGATCTACCTCCTGAATTTATT  
CACCTTTATATATCAAATTGCATCTCTACTTGTGAACAGATTAAGGATAAATATATGCAGAATCGGTTGGTGCCT  
CTTGTGTGTGTGTTTCTCCAATCCTTGATCCGTAACAAAATTATTAATGTACAGGATTTGTTTATAGAAGTGCAG  
GCATTCTGTATTGAATTCAGTAGGATACGAGAAGCTGCTGGTCTTTTCCGGTTGTTGAAGACATTGGATACTGGG  
GAAACACCTTCTGAGACCAAAATGTCAAAATAA

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**FIGURE 835**

MPGGGASAASGRLLTAAEQRGSR EAAGSASRSGFGGSGGGRGGASGPGSGSGPGGPAGRMSLTPKELSSLLSII  
SEEAGGGSTFEGLSTAFHHYFSKADHFRLGSVLVMLLQQPDLLPSAAQRLTALYLLWEMYRTEPLAANPFAASFA  
HLLNPAPPARGGQEPDRPPLSGFLPPITPPEKFFLSQLMLAPPRELFKKTPRQIALMDVGNMGQSVDISGLQLAL  
AERQSELPTQSKASFPSILSDPDSSNSGFDSSVASQITEALVSGPKPPIESHFRPEFIRPPPPLHICEDELAW  
LNPTEPDHAIQWDKSMCVKNSTGVEIKRIMAKAFKSPLSSPQQTQLLGELEKDPKLVYHIGLTPAKLPDLVENNP  
LVAIEMLLKLMQSSQITEYFSVLVNMDMSLHSM EVVNRLTTAVDLPPEFIHLYISNCISTCEQIKDKYMQNRLVR  
LVCVFLQSLIRNKIINVQDLFIEVQAF CIEFSRIREAAGLFRLKTLDTGETPSETKMSK

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**FIGURE 836**

AGGGTACGGGCGGGACCGCCGAGCCGGGGCGGGGGCACGGCAACCGCGAGGCCTGGGGGCGCCCGCCCCCG  
CGCCCCACGCCCCGGTGCCAGCGAGCCGAGGCGTGATCTCCTTATATGGTCAAATGACACGGCGGGGTTTCTCGA  
GGGCGGGAGCTGCGCAGCGCTCCACTCGGCCGGCAGCGGAGCCGCGAGCCACCAGCCGCCCGCGCCCTCCAGCCCC  
GTCCGGGAGTCCCCGGCCCGCTGCGGTGCCGTGAGTACCTCCAACCCCTGCGCCCCGGAGGGAGGCCGAGGGGGC  
TTAGCCACCAGGGCTCGGAAGTGGGGGCCGAATCCGGTGCGAGACCCAAGGAGAGGGGAGCAGAGCCGGAGTTGG  
GGAGACTGTGGCTGAAAACCTGTGTCTTCTGGAGACTAGGCTGGCATTTTGACTTTGGGACGGAGTCTCGCTTG  
TCGCCCAGGCTGGAGTGCACTGGCACGATCTCAGCTCACTGCAAGCTCTACCTCTTGGTTACGCCATTCTCCTG  
CCCCAGCCTCCAAGTAGCTGGGACTACAGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGC  
CACCATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCTACTGCGTGGTGTGCTTT  
GAGACCCTGTTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGACTTGTCTTACAAG  
GACCGGCACTGGCATGAAGCCTGTTTCCACTGCTCGCAGTGCAGAACTCACTGGTGGACAAGCCCTTTGCTGCC  
AAGGAGGACCAGCTGCTCTGTACAGACTGCTATTCCAACGAGTACTCATCCAAGTGCCAGGAATGCAAGAAGACC  
ATCATGCCAGGTACCCGCAAGATGGAGTACAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGC  
CAGCAGCCAATTGGAACCAAGAGTTTCATCCCCAAAGACAATCAGAAATTTCTGTGTGCCCTGCTATGAGAAACAA  
CATGCCATGCAGTGCCTTCAGTGCAAAAAGCCCATCACACGGGAGGGGTCACCTACCGGGAGCAGCCCTGGCAC  
AAGGAGTGCTTCGTGTGCACCGCCTGCAGGAAGCAGCTGTCTGGGCAGCGCTTCACAGCTCGCGATGACTTTGCC  
TACTGCCCTGAACCTGCTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCCATCAGCGGACTTGGT  
GGCACAAAATACATCTCCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGCTCCCTCTCA  
CTGGTGGGGCGTGGCTTCCTCACAGAGAGGGACGACATCCTGTGCCCCGACTGTGGGAAAGACATCTGAATTCAA  
CACAGAGAAGTTGCTGCTTGTGATCTCACACACAGATTTTATGTTTTCTTTCTCAGGCAATCTTGCCCTTC  
TGGTTTCTTCCAGCCACATTGAGACTTTCTTCTAGTGCTTTTCAGTGATACTCACGTTTGCTTAAACCCCTTAGT  
GCTTTGTGATAGTTCACTCCAGGGAAAGAGAAAACTCGCCCTAGGCCCTAGGTGGGAAGATGGTTTGAAATTTT  
TGTAATCGAGTAAGGCACACCCAAATGTAAAAATCCTTTTGAAATGATGCCTTTATAAATCTTTCTCTACCTGTCT  
ATTTAAGTGCAATTAACATATGTCACGAACCTTGAAAGTTTCTAAACTCAATAAGGTAATGACCAGTTGTTATTT  
ACAGCTCTGTAACTCCCGTTGCGTCAAGTCTAAACCAAGATTATGTGACTTGCAATAAAGTTATTTCAGAACAGA  
AAAAAAAAAAAAAAAAA

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**FIGURE 837**

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKPIGCDCKDLSYKDRHWHEACFHCSQCRNSL  
VDKPFAAKEDQLLCTDCYSNEYSSKCQECKKTIMPGTRKMEYKGSSWHETCFICHRCQQPIGTKSFIPKDNQNFC  
VPCYEKQHAMQCVQCKKPIITGGVITYREQPWHKECFVCTACRKQLSGQRFTARDDFAYCLNCFCDLYAKKCAGCT  
NPISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

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**FIGURE 838**

AGTCTTCTGGCCCCGAGAGGGAGAGGTGGGGATAGGACCTTCCTTTAGTCCCCTCCGTAGTGGAACGAAGGATTCTTTATGGTCATCTGTGGTGTTTCATTTTCGTAAAGAAGCATCTGCAGGGTAAGAAGGAAAAACGTCCACCTTGCAAAATATATCCCAGGCACATGCCTCCTGAGAAAGTGACCCCCCTCCTCCCTCCGCCTCCCCCGGCACGTCTGGGGCTTCTCCAGTCTCCCGCTCCTGGGACCAGGCAGAGATCCCGGCGTGGGCAGACCCCTGCCACCGCGCCCCAGGCCTCGTCCGAAACTCGCGCCCCGAGAGCCCCACGCCGGAGGCGACGCTCCCGATAACTACTGTGCTCCCAAGACCCGGAGGGCACGAAGAAAGGAGCCCTGGCAAACAAAGGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGCCACCATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGCGTGTGCTTTGAGACCCTGTTGCGCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGTACCTGCTGCGGGCCTCTGCGGGTCCCCGGCGCTCCCCTAGGAAACACGGGTTTCTCTGTGGTTTGTGCTGAAGCCCTGATCCACCACTGAA GTCTGTCTCTTGAGCCCCCTCTGAGGGGCGTGACCCTGCGTGTAGCCTTTCGGAAGCTTCTTCCCTCTAGCGAA TGTGATCTCTGCCCACAAGCACTGGGTGAGGGCCTTGCCAGGACTTTTGTGCTTAGTATCTCTAAGTACATTTTC TGTATTCTAGCAATTAGTGCCCTTATCTAACTACCCAGCTGCCTACCAATACTGGAACCTTCTTAAGGGTGGTGC TCTCTTCCTCTTGTCTGTTTGCCCCGTGGTGAGTAACGTGGAGCAGGTGCTGTGCTCAGTCAATATTTGATGAAT GAATGTGTACATGAGAGAACCAGAGTTGGTTCCCTGGATAAATGGGCACATAAAAGCACAAAGTCCTTGG

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**FIGURE 839**

AAGGACTCCATGAAAGATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCCAGCAGGACCAGGA  
GCTGGACATCAAGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAGGAACGCGGC  
CAACAGGACGGGCTATGTACCGTCCAACCTACGTGGAGCGGAAGAAGACAGCCTGAAGAAGGGCTCCCTCGTGAAGAA  
CCTGAAGGACACACTAGGCCTCGGCAAGACGCGCAGGAAGACCAGCGCGCGGGATGCGTCCCCCACGCCCAGCAC  
GGACGCCGAGTACCCCGCCAATGGCAGCGGCGCCGACCGCATCTACGACCTCAACATCCCGGCCTTCGTCAAGTT  
CGCCTATGTGGCCGAGCGGGAGGATGAGTTGTCCCTGGTGAAGGGGTGCGCGGTCACCGTCATGGAGAAGTGCAG  
CGACGGTTGGTGGCGGGGAGCTACAACGGGCAGATCGGCTGGTTCCCCTCCAACCTACGTCTTGGAGGAGGTGGA  
CGAGGCGGCTGCGGAGTCCCCAAGCTTCCTGAGCCTGCGCAAGGGCGCCTCGCTGAGCAATGGCCAGGGCTCCCG  
CGTGCTGCATGTGGTCCAGACGCTGTACCCCTTCAGCTCAGTCACCGAGGAGGAGCTCAACTTCGAGAAGGGGGA  
GACCATGGAGGTGATTGAGAAGCCGGAGAACGACCCCGAGTGGTGGAAATGCAAAAATGCCCCGGGGCCAGGTGGG  
CCTCGTCCCCAAAACTACGTGGTGGTCCCTCAGTGACGGGCCTGCCCTGCACCCTGCGCACGCCCCACAGATAAG  
CTACACCGGGCCCTCGTCCAGCGGGCGCTTCGCGGGCAGAGAGTGGTACTACGGGAACGTGACGCGGCACCAGGC  
CGAGTGCGCCCTCAACGAGCGGGGCGTGGAGGGCGACTTCCTCATTAGGGACAGCGAGTCTCGCCCAGCGACTT  
CTCCGTGTCCCTTAAAGCGTCAGGGAAGAACAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGG  
GCAGCGGGCGCTTCCACACCATGGACGAGCTGGTGGAACTACAAAAAGGCGCCCATCTTCACCAGCGAGCACGG  
GGAGAAGCTCTACCTCGTCAGGGCCCTGCAGTGACGGCGCCCCGGCCCCACACTCGCCTCCCGGGCCCCACGGTG  
GAGCTGCCCCCGCGCCTTGTGGCAGAGGCTCCTCCCGGGGACGGCCCCGACGGCTTCTCTG



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**FIGURE 840**

MTEEVIVIAKWDYTAQQDQELDIKKNERLWLLDDSKTWWRVNRNAANRTIGYVPSNYVERKNSLKKGSLVKNLKD TL  
GLGKTRRKTSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKFAYVAEREDEL SLVKGSRVTVMEKCS DGWWR  
GSYNGQIGWFPSNYVLEEVDEAAAESP SFLSLRK GASLSNGQGS RVLHV VQTLYPFSSVTEEELNFEKGETMEVI  
EKPENDPEWWKCKNARGQVGLVPKNYVVVLS DGPALHPAHAPQISYTG PSSGRFAGREWYYGNVTRHQAECALN  
ERGVEGDFLIRDSESSP SDFS VSLKASGKNKHFKVQLVDNVYCIGQRRFHTMDELVEHYKKAPIFTSEHGEKLYL  
VRALQ

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**FIGURE 841**

TGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTACAAGCCCTTGACCTGCC  
TCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACC  
TGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTT  
GAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTATGGCAA  
CGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGTTTCACTGCTCAGGTGATTATCCTGAACCA  
TCCAGGCCAAATAAGCACTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGA  
GCTGAAGGAAAAGATTGATCACCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTTGGGTTGCTTTG  
CTGTTTCGTGATATGAGACAGATAGTT

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**FIGURE 842**

AAAAGCCAAATGGGAAAGGAAAAGACTCATACCAACATTGTCGTCATTGGACACATAGATTCGGGCAAGTCCAC  
CACTACTGGCCATCTGATCTACAAAGGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGC  
TGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGTGTGAACATGGTATCAC  
CATTGATACCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCGTTGATGCCCCAGGACACAGAGA  
CTTCATCAAAAACATGATTACAGAGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGA  
ATTTGAAGCTGGTATCTCCAAGAATGGGCAAACCCAAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACA  
ACTAATTGTTGGTGTTAACAAAATGGATTCTACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACAAA  
ATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTT  
GCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGG  
GACAATGTGG

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**FIGURE 843**

AACAGATCTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGTGGAGTTACCACACACCAGGAACCTCTTTC  
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC  
AATGCCAGATGGGTAAGCAAACATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC  
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG  
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCCT  
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG  
GAGATAGTAGCCTGGTGTGTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC  
CGTTTATAGGAGCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG  
TGATGTACTATAAGAGTAAAGAAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGA  
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG  
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA  
TTCTGTTCAATCCCCATGGTTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG  
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG  
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC  
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA  
GGACAACCTGGAGCCCAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGAATCCGTTTTG  
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG  
ATCGGTGCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG  
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAGTCGCGAGTGACACTATCGATACTGTTTCTGTGCCT  
TATGTTTTTTCGGTATTTTGTAGCTGAACCTGGCAGCTATGAACATCAAAGTGAACTGGATGTTGTTAACTTGAT  
GTTGACCTTTTGGATTAAAGGGGACTATCAGATTAAAGCAAAATGTAATTTTAATTCAATGAAGATATCATTACCA  
GGTTACTCTTGAGATTTTCAACGGTGTTAGAACTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA  
ATCTCTCTGGTAGATTAACTATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGTCTTCTCAAAAATA  
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCTGCTCTC  
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT  
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA  
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA  
CCACAATCAGGGTAATAAACATAACCTGTCATCTCCACAAGTTTCCTCCTGCCCTTTGTTTTTTGCTTTTTGGTT  
GCTGTTGAGTTTTTGTGTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG  
TGCACGATATAGTATTGTTAATTCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGATAAC  
TGAAGCTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCCCTAGCAACCACCTTCTACCCTGTTTCTATGA  
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCCTGTGACTGGCTTATTTCACTTAGCA  
TAGTGAATAAGATTATCCATTTTGAAGCCAGGCATGGTGTGCTGTGCATCTATAGTCCCTGCTATTTGAGAGGC  
TGAGGTGGGAGGATCATTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC  
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC  
TCCGGTGAGTATTTTATATTTAGTCTACACTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTCAT  
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTTCTTGTGTACAGTATTTTATTGTATGGATTTACCATCCCCTGT  
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT  
ATAAACTGTTGATAATAAAAAAAAAAAAAAAAAA

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**FIGURE 844**

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFPLLTYQDRSDNKLYRLQT  
PQSPLVRPSMYDYDMDNYPIGTNAIVAVISYTGDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSS  
LVFGIKPGDPRVLQKLDDGLPFIGAKLQYGDPIYSYLNLTGESFVMYYKSKENCVVDNIKVCSNDTGSGKFKE  
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH  
GLCHDATPFIIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG  
ARDRVNTQFIGGRNVQGGIRFGEMERDALLAHGTSFLLHDLRFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA  
QQKIQLYSV

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**FIGURE 845**

GAGCTGTCCCCGGTGCCGCCGACCCGGGCCGTGTGCCCGTGGCTCCAGCCGCTGTGCGCTCGATCTCCTCGTCTC  
CCGCTCCGCCCTCCCTTTTCCCTGGATGAACCTTGCCTCTTTCTCTTCTCCGCCATGGAATTCTGCTCCGTGCTT  
TTAGCCCTCCTGAGCCAAAGAAACCCAGACAACAGATGCCCATACGCAGCGTATAGCAGTAACTCCCCAGCTCG  
GTTTCTGTGCCGTAGTTTACAGTATTTAATTTTATATAATATATATTATTTATTATAGCATTTTGTATACCTCAT  
ATTCTGTTTACACATCTTGAAAGGCGCTCAGTAGTTCTCTTACTAAACAACCACTACTCCAGAGAATGGCAACGC  
TGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCTTTGGTGGACTACCTATGGATGCTCATCTGCGGCT  
TCATTATTGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTCCTTTGGTACAGCTGTGGGCT  
CAGGTGTAGTGACCCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAAACAGTGGGCTCTGTCTTACTGGGGG  
CCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGATGTACAACCTCGACTCAAGGGCTGCTGATGG  
CCGGCTCAGTCAGTGCTATGTTTGGTCTGCTGTGTGGCAACTCGTGGCTTCGTTTTTGAAGCTCCCTATTTCTG  
GAACCCATTGTATTGTTGGTGCAACTATTGGTTTCTCCCTCGTGGCAAAGGGGCAGGAGGGTGTCAAGTGGTCTG  
AACTGATAAAAATTGTGATGTCTTGGTTCGTGTCCCCACTGCTTTCTGGAATTATGTCTGGAATTTTATTCTTCC  
TGGTTCGTGCATTCATCTCCATAAGGCAGATCCAGTTCCTAATGGTTTGCAGCTTTGCCAGTTTCTATGCCT  
GCACAGTTGGAATAAACCTCTTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTTGACAAACTTCCTCTGT  
GGGGTACCATCCTCATCTCGGTGGGATGTGCAGTTTTCTGTGCCCTTATCGTCTGGTCTTTGTATGTCCCAGGA  
TGAAGAGAAAAATTGAACGAGAAAAATAAGTGTAGTCTTCTGAAAGCCCTTAATGAAAAAAGAATAGCTTGA  
AAGAAGACCATGAAGAAACAAAGTTGTCTGTTGGTGATATTGAAACAAGCATCCTGTTTCTGAGGTAGGGCCTG  
CCACTGTGCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACCTGGAGATTGGAGGAAGCTCCAG  
AGAGAGAGAGGCTTCCCAGCGTGGACTTGAAAGAGGAAACCAGCATAGATAGCACCGTGAATGGTGCAGTGCAGT  
TGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTCAGCAACCAATAAACTCCAGTGGCCACTACCAGTATC  
ACACCGTGCATAAGGATTCCGGCCTGTACAAAGAGCTACTCCATAAATTACATCTTGCCAAGGTGGGAGATTGCA  
TGGGAGACTCCGGTGACAAACCTTAAGGCGCAATAATAGCTATACTTCTATACCATGGCAATATGTGGCATGC  
CTCTGGATTCAATCCGTGCCAAAGAAGGTGAACAGAAGGGCGAAGAAATGGAGAAGCTGACATGGCCTAATGCAG  
ACTCCAAGAAGCGAATTGCAATGGACAGTTACACCAGTTACTGCAATGCTGTGTCTGACCTTCACTCAGCATCTG  
AGATAGACATGAGTGTCAAGGCAGAGATGGGTCTAGGTGACAGAAAAGGAAGTAATGGCTCTCTAGAAGAATGGT  
ATGACCAGGATAAGCCTGAAGTCTCTCTCTCTTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTCAATCG  
CCCATGGTGGCAATGACGTAAGCAATGCCATTGGGCCTCTGGTTGCTTTATATTTGGTTTATGACACAGGAGATG  
TTTCTTCAAAGTGGCAACACCAATATGGCTTCTACTCTATGGTGGTGTGGTATCTGTGTTGGTCTGTGGGTTT  
GGGGAAGAAGAGTTATCCAGACCATGGGGAAGGATCTGACACCGATCACACCCTCTAGTGGCTTCAGTATTGAAC  
TGGCATCTGCCCTCACTGTGGTGAATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAAGTGGGCT  
CTGTTGTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTCTTTTCGTAACATTTTTATGGCCT  
GGTTTGTACAGTCCCCATTTCTGGAGTTATCAGTGTCTGCCATCATGGCAATCTTCAGATATGTCATCTCAGAA  
TGGAAGCTGTTTGAGATTAATAATTTGTGTCAATGTTTGGGACCATCTTAGGTATTCTGCTCCCTGAAGAATG  
ATTACAGTGTAAACAGAAGACTGACAAGAGTCTTTTTATTTGGGAGCCAGAGGAGGGAAGTGTACTTGTGCTAT  
AACTGCTTTTGTGCTAAATATGAATTGTCTCAAATTAGCTGTGTAAATAGCCCGGTTCCACTGGCTCCTGCT  
GAGGTCCCCTTTCTTCTGGGCTGTGAATTCCTGTACATATTTCTCTACTTTTTGTATCAGGCTTCAATTCCATT  
ATGTTTTAATGTTGTCTCTGAAGATGACTTGTGATTTTTTTTTTTTTTAAACCATGAAGAGCCGTTTGACA  
GAGCATGCTCTGCGTTGTTGGTTTACCAGCTTCTGCCCTCACATGCACAGGGATTTAACAACAAAAATATAACT  
ACAACCTCCCTTGTAGTCTCTTATATAAGTAGAGTCTTGGTACTCTGCCCTCCTGTCAGTAGTGGCAGGATCTA  
TTGGCATATTCGGGAGCTTCTTAGAGGGATGAGGTTCTTTGAACACAGTGAAAATTTAAATTAGTAACTTTTTG  
CAAGCAGTTTATTGACTGTTATTGCTAAGAAGAAGTAAGAAAGAAAAGCCTGTTGGCAATCTTGGTTATTTCTT  
TAAGATTTCTGGCAGTGTGGGATGGATGAATGAAGTGAATGTGAACCTTGGGCAAGTTAAGTGGGACAGCCTTC  
CATGTTCAATTTGTCTACCTCTTAAGTGAATAAAAAAGCCTACAGTTTTTAG

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**FIGURE 846**

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLAFSVGANDVANSFGTAVGSGVVTLKQACILASIFETVGSV  
LLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVASFLKLPISGTHCIVGATIGFSLVAKGQEGV  
KWSELIKIVMSWFVSPLLSGIMSGILFFLVRAFILHKADFPNGLRALPVFYACTVGINLFSIMYTGAPLLGFDK  
LPLWGTILISVGCAVFCALIVWFFVCPMKRKIEREIKCSPSESPLEKKNSLKEDHEETKLSVGDIENTKHPVSE  
VGPATVPLQAVVEERTVSFKLGDLEEAPERERLPSVDLKEETSIDSTVNGAVQLPNGNLVQFSQAVSNQINSSGH  
YQYHTVHKDSGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTSYMAICGMPLDSFRAKEGEQKGEEMEKLTW  
PNADSKKRIRMDSYTSYCNVSDLHSASEIDMSVKAEMGLGDRKGSNGSLEEWYDQDKPEVSLLFQFLQILTACF  
GSFAHGGNDVSNAIGPLVALYLVDYTDGDVSSKVATPIWLLLYGGVGICVGLWVWGRRVITQTMGKDLTPITPSSGF  
SIELASALTVVIASNIGLPITTHCKVGSVSVGWLRSKKAVDWRLFRNIFMAWFVTVPISGVISAAIMAFRYV  
ILRM

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**FIGURE 847**

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT  
CTGAAGCAGCCATGGCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT  
TGTTCTTTGAAGCTGATGGCCCTAAACAGATGAAGTGCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG  
GCATCCAGCTACGAATCTCCGACCACCACTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG  
ACAAGCTGAGGAAGATGCTGGTTCCCTGCCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTTCCCTTCA  
TCTTTGAAGAAGAACCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC  
TGAAGTGCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGTCTGGTCCATATGAACTGAAAGCTCTCCACC  
TCCAGGGACAGGATATGGAGCAACAAGTGGTGTCTCCATGTCCTTTGTACAAGGAGAAGAAAGTAATGACAAAA  
TACCTGTGGCCTTGGGCCTCAAGGAAAAAGTCTGTACCTGTCCTGCGTGTTGAAAGATGATAAGCCCACTCTAC  
AGCTGGAGAGTGTAGATCCCCAAAAATTACCCAAAGAAGAAGATGGAAAAGCGATTTGTCTTCAACAAGATAGAAA  
TCAATAACAAGCTGGAATTTGAGTCTGCCAGTTCCTCAACTGGTACATCAGCACCTCTCAAGCAGAAAACATGC  
CCGTCTTCTGAGGAGGACCAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCTTAAAGAG  
AGCTGTACCCAGAGAGTCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAACAGAAAGGTTTT  
TGAGTACGGCTATAGCCTGGACTTTCTGTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA  
GGATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTTCAAGGCCAATCCCCAGCCCTTTTGTGAGCCAG  
GCCTCTCTCACCTCTCCTACTCACTTAAAGCCCGCCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCCT  
CTGTCAATTCGCTCCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTGTTTATTCA  
TTGGTCTAATTTATTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAAAGAGCCTAGTTTTTAATAGCTATGGAAT  
CAATTCATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTTAATTAAGACTGAAAATATATAAGCTCAGATT  
ATTTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG



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**FIGURE 848**

MAEVP ELASEMMAYYS GNEDDLFFEADGPKQMKCSFQDLDLCPLDGGIQLRISDHHSYSGFRQAASVVVAMDKLR  
KMLVPCPQTFQENDLSTFFPFIFEEEPIFFDTWDNEAYVHDAPVRS LNCTLRDSQQKSLVMSGPYELKALHLQGQ  
DMEQQVVF SMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINN K  
LEFESAQFPNWIISTSAENMPVFLGGTKGGQDITDFTMQFVSS

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**FIGURE 849**

AGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTCAGACCTATGCCGTGCCCTCATCCAGCCAGA  
CCTGCGGTGAGAGGAGGCCGTCCAGCAGATGGCAGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTT  
CAGCAGTGAGAGCGGCCCTTGCTGCGGCCAAAGAACATGGAAAAGCATGAGTGGGGTGATGTGTGCCTTAAAGCAT  
CAGACACTTGGGCCTCGGGCATCAGGAGCCAGCCACAGGGATGTCTGGGGAAATGGCGTTCCATGAGATGCAAGC  
ACACAAGAATGCACCTTGGCACATCTGGGGAACAGCAGGCAGCTGATATCACTGGGCCCACCCTGCACCAGGGAGG  
ATGGAAGCAGGTAGAGCAGAGCCGGAGCCAGGTGCAGGCCATTGGAGAGAAGGTCTCCTTGGCCCAGGCCAAGAT  
TGAGAAGATCAAGGGCAGCAAGAAGGCCATCAAGGTGTTCTCCAGTGCCAAGTACCCTGCTCCAGAGCGCCTGCA  
GGAATATGGCTCCATCTTCACGGGCGCCCAGGACCCTGGCCTGCAGAGACGCCCCGCCACAGGATCCAGAGCAA  
GCACCGCCCCCTGGACGAGCGGGCCCTGCAGGAGAAGCTGAAGGACTTTCCTGTGTGCGTGAGCACCAAGCCGGA  
GCCCGAGGACGATGCAGAAGAGGGACTTGGGGGTCTTCCAGCAACATCAGCTCTGTCAGCTCCTTGCTGCTCTT  
CAACACCACCTAGAACCT

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**FIGURE 850**

AGCGCGGGGAACCGGAGGCTGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGCAGTACACCA  
ACGCAGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTGCTACGTTAG  
ACCAGTTTGATGCTATTGATTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTTGAGAAGACTGA  
AAACATTGTTAGGGAACAACAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTGTCTGACAG  
AACTCATTCTCACCAATAATAGGCTCGTGGAACCTGGGTGATCTGGACCCTCTGGCATCTCTCAAATCGCTGACTT  
ACCTAAGTATCCTAAGAAATCTGGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGTTCCGCAAG  
TCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGTTTAAATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAA  
AGGTGGGCCATCGCCAGGGGATGTAGAAACAATCAAGAATGCTATAGCAAATGCTTCAACTCTGGCTGAAGTGGA  
GCGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAAATCGGGGCC

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**FIGURE 851A**

GATGGGCTGTGCAAAGGGCGCGGCTGCTGAGGACAGGGCTGTGGCTGGAGAACCTGCTGCTTCCTGAAGCCGAGC  
CCCACCTAAAGGACCGAGAGCACAGGCCATGGGAGAGGAATCGAGTAGGGATGCAGAGCCTGGTGGCACTGTCC  
TGAGAGAGGAGGAGGCTGGGCAGGGCCCCGGCGCTGGAGAGGTGCCCTGCATATGGGACCTCTCAGAGGTGCACA  
AGAGCTGTGTGCCAGGTACCCCTGTCTCCTCTCCTCCAGCCCCCAGCCTACTCTCCTAATGGTCTGTGTCT  
TTCAGGGATGAGATTTACTGCCAGATCTGCAAGCAGCTCTCGGAGAACTTCAAAACAAGCAGCCTGGCCCCGGGGC  
TGGATCCTGCTCAGCCTCTGCCTCGGCTGCTTCCCACCCTCAGAGAGGTTTCATGAAGTATCTACTGAACCTTCATC  
GGCCÀAGGGCCGGCGACCTACGGCCCCCTTCTGTGCCGAGCGCCTGAGACGCACCTATGCCAATGGGGTGCCTGCG  
GAGCCCCCACCTGGCTGGAGCTGCAGGCTGTCAAGTCCAAGAAGCACATCCCCATCCAAGTCATCTTGGCCACT  
GGAGAGAGCCTAACCGTCCCCGTGGACTCAGCCTCCACATCTCGGGAAATGTGCATGCACATCGCTCACAAGCAG  
GGCCTCAGCGACCACCTGGGCTTCTCCCTCCAGGTGCGCGTGTACGACAAGTTCTGGTCCCTGGGCAGCGGGCGC  
GACCACATGATGGATGCCATCGCCGGTGTGAGCAGATGGCCAGGAGAGGGGCGAGAGCCAGCGCCAGTCACCC  
TGGCGCATCTACTTCCGGAAGGAATTCTTACCCCCCTGGCACGACTCCCGGGAGGACCCTGTCAGCACCGAGCTT  
ATTTACCGCCAAGTCTCCGAGGAGTCTGGTCTGGCGAGTACAGCTTCGAGAAGGAGGAAGAGCTGGTTGAGCTG  
CTGGCCCCGCACTGCTACGTGCAGCTCGGCGCCTCAGCAGAGAGCAAGGCTGTCCAGGAGCTGCTGCCAGCTGC  
ATCCCCCACAAGCTGTACAGGACCAAGCCCCCAGACAGGTGGGCGAGCCTCGTCACTGCCGCTGCGCCAAGGCC  
CCATACACTCAGAAGCAAGTCACACCACTGGCCGTGCGAGAGCAGGTGGTGGACGCGCGCCGCTGCAGTGGCCG  
CTGCTCTTCTCCCGGCTCTTCAAGTCATCACACTCTCAGGCCCCCGCCTGCCCAAGACGCAGCTGATCTTGGCT  
GTAACTGGAAGGGGCTTTGCTTCTGGACCAGCAGGAGAAGATGCTGCTGGAACCTCTCTTCCCAGAGGTCATG  
GGTCTGGCCACCAACAGGGAGGCCAGGGCGGGCAGAGGCTGCTGCTCTCCACGATGCATGAGGAGTACGAGTTT  
GTGTCACCCAGCAGTGTGGCCATCGCTGAGCTGGTGGCCCTGTTCTGGAGGGCCTGAAGGAGAGGTCCATTTTC  
GCCATGGCCCTGCAGGACAGGAAGGCCACAGATGACACCACCCTCCTGGCCTTCAAGAAGGGGGACCTGTTGGTC  
CTCACAAGAAGCAGGGGCTGCTGGCTCTGAGAACTGGACCCTCGGCCAGAACGACAGGACAGGCAAGACGGGG  
CTGGTGGCCATGGCCTGCCTCTACACCATCCCCACGGTCACTAAGCCCTCGGCACAGCTGCTGAGCTTGCTTGCC  
ATGTCACCCAGAGAAGAGGAAGCTGGCGGCTCAGGAGGGGAGTTACAGAGCCACGTCCTGAGGAGCCACCCAAG  
GAAAAGCTGCACACCCTGGAGGAGTTCTCCTATGAGTTCTTACAGGGCTCCAGAGAAGGACATGGTGAGCATGGCC  
GTGCTGCCCCCTGGCCCGTGCCCGTGGCCACCTGTGGGCTATTCTGCGAGCCGCTGCGACAGCCGCTGCTCAAG  
CGAGTCCACGCCAACGTCGACCTCTGGGACATCGCTGCCAGATCTTGTGCGCATCCTCCGGTACATGGGCGAC  
TACCTTCTCGGCAGGCTGGCCACCCTGGAGCTACCGACCAGATCTTCAACTGGCCCTGCAGCACCCGGCC  
CTCCAGGACGAGGTCTACTGCCAGATCCTGAAGCAGCTGACGCACAACCTCCAACAGGCACAGCGAAGAGCGGGC  
TGGCAGCTGCTGTGGCTGTGCACGGGCTCTTCCCGCCAGCAAGGGGCTGCTGCCCCATGCCAGAAGTTTATA  
GAACTCGGAGGGGAAGCTGCTGGCCCCGACTGCAGCGCCGAATCCAGAAGGTCTGAGGACGGGGCCCCGG  
AAGCAGCCCCCGCACCAGGTGGAGGTGGAGGCGCAGAGCAGAACGTCCTCCGCATCTGCCACAAGATCTACTTC  
CCCAATGACACCAGTGAGATGCTGGAGGTGGTTGCCAACACACGGGTGCGGGATGTGTGTGACAGCATTGCCACC  
AGGCTGCAGCTGGCCTCCTGGGAGGGCTGCAGCCTCTTCATCAAGATTTTCAGACAAGGTGGGCCGGGCTGGGGCT  
GGGCAGACGGTGGGCGGACGGGCAGTGAGCGAGGCCCTAGGTGCTGCCTGTGGGGGCTCAGCCTACCAGGGGCA  
CCATGCTGGACCAGGCTGCACGGCCAGGGCTGCTGGGACAGAGGTAGGTGGGGTCTTGAGCAGAGCCAGCTCC  
ACACGCCAATAGCCACGCACAGCCGACTCCAGCGCAGCACCCAGGCCGTAGGCGGCCACTGGACCAGAACCAG  
CAGGTTCTCAGGAGGACAGTCCCCGGAAGCCACCCAACCTCCCTGTACCTTCCCCTTCCCAGGTTCATCAGCCAG  
AAGGAGGGAGACTTCTTCTTTGATTCTTGAGGGAGGTGTCTGACTGGGTGAAGAAGAACAAGCCCCAGAAAGAA  
GGGGCCCCCGTGACGCTCCCCCTACCAGGTGTACTTCATGCGGAAATTGTGGCTCAACATATCTCCAGGGGAAGGAT  
GTGAATGCAGACACCATACTCCATTACCACAGGAGTGCCCAAGTACCTGCGCGGATTCCACAAGTGTTCGCGG  
GAGGATGCCATCCACCTGGCGGGCTCATCTACAAGGCCAGTTCAACAACGACCGGTCCAGCTGGCTAGTGT  
CCCAAGATCCTGAGGGAAGTGGTGCCTGAGAACCTCACACGCTGATGTCTCGGAGGAGTGAAAAAGAGCATC  
CTTCTAGCCTATGACAAGCATAAGGACAAGACAGTGAGGAGGGCCAAGGTGGCCTTCTGAAAGTGGATCTGCCGG  
TGGCCACCTTCGGATCCGCCTTCTTCGAGGTGAAGCAAACCTCGGAGCCTTCTACCCGGACGTTCATCTCATC  
GCCATCAACCGACATGGGGTTCTGCTCATCCACCCCAAGACCAAGGACCTGCTCACCACCTATCCCTTCACCAAG  
ATCTCCAGCTGGAGCAGCGGACAGCACTTCCACATGGCGCTGGGGAGCCTGGGCCGTGGCAGCCGCTGCTG  
TGCGAGACCTCCCTGGGCTATAAGATGGATGACCTGCTGACCTCATATGTGCAGCAGCTCCTGAGTGCCATGAAC

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**FIGURE 851B**

AAGCAGCGGGGCTCCAAGGCCCCAGCCCTGGCCAGCACCTAGCAGCGGATGCTGGCGTGTCTGCTCAGGCGCCCT  
TCCCGACCTCTAGCCTGGCGGCACCTTCCCAGGCCCTCTCAACCCAGGGCCTGTCCTTGGCGGGCAGCCTTCCAT  
GCTGCCCCCATACAAAGCCCACTCAGCCCCGCAGGCGGCCCCCTCTGTCCTGGGCGCTGCCCAGGGAGGCCAAA  
AGACGGGCCCAGAATGGGGTCGGGAGTCTCGGACCCCCAGGCTATTGGTGGATGACTGACTGACAGGACACCTCC  
CAACCCACCCACCCACCAGAATGTTCAATAAAAACTCCTGGAGCAGGA

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**FIGURE 852**

MKYLLNFIGQGPATYGPFCERLRRTYANGVRAEPPTWLELQAVKSKKHIPIQVILATGESLTPVDSASTSREM  
CMHIAHKQGLSDHLGFSLQVAVYDKFWSLGSGRDHMDAIARCEQMAQERGESQRQSPWRIYFRKEFFTPWHDSR  
EDPVSTELIYRQVLRGVWSGEYSFEKEEELVELLARHCYVQLGASAESKAVQELLPSCIPHKLYRTKPPDRWASL  
VTAACAKAPYTQKQVTP LAVREQVVD AARLQWPLLF SRLFEVITLSGPRLPKTQLILAVNWKGLCFDQQEKMLL  
ELSFPEVMGLATNREAQGGQRLLLLSTMHEEYEFVSPSSVAIAELVALFLEGLKERSIFAMALQDRKATDDTTLLA  
FKKGDLLVLTKKQGLLASENWTLGQNDRTGKTGLVPMACLYTIPTVTKPSAQLLSLLAMSPEKRKLAAQEGQFTE  
PRPEEPPKEKLHTLEEF SYEFFRAPEKDMVSM AVLPLARARGHLWAYSC EPLRQPLLKRVHANVDLWDIACQIFV  
AILRYMGDYP SRQAWPTLELTDQIFTLALQHPALQDEVYCQILKQLTHNSNRHSEERGWQLLWLCTGLFPPSKGL  
LPHAQKFIDTRRGKLLAPDCSRRIQKVLRTGPRKQPPHQVEVEAAEQNVSRICKIYFPNDTSEMLEVVANTRVR  
DVCD SIATRLQLASWEGCSLFIKISDKVGRAGAGQTVGGRAVSEALGAACGGLSLPGAPMLDQAARPGLLGQR

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**FIGURE 853**

AAGTGCATGACTCAGGACTGGGTGGGAGGGGGCTGTCCCTGAGGCCCTGGTCTCCCCCAGCCAAGTCCTGGCAGG  
GGGATGCTGTTCTTCAGGATCCCATGACCTGGGGCTCTTGGGGAGCCCCAGCCCGGAGAGTGACCTGTGGCTTTG  
CTGGGGAAAGGGGCTTGAGGGGTACAGGGCAGTGTCCAGGATTGCAGTCTCAAATCCGAGGCCCCACAGGGGAGCT  
GCCTCTGTGATCGCCATTAAGGCTGTGGCCTGGGGTCTCAGGGCAGCCCAGGAACCAAAAATAGCCTGTAACCTG  
TCACTTTGTAAGTCCTGCCCTCCAGACACACTTCCCTTTCTTCTCCCCAAGCCTCTCTTCCCAGTTAGCTCCCCCT  
GACTTGGAGTCACCTCTAAGCCTTGCCCCAGGCCCTCTGCAGTGAGATGGAGGGACTCATCCCCCGGAGAGTGG  
CATCTGCAGGCCCCACTGGCTGCCTGTGGTCACCCCTAGGGTTCTAGCGGGGCTGCCTCCCATTTTCTCCTCAGAGC  
ATCCCTGCCAGCTGGCTGGTTCTCACTCTCCTGTTTTCTAGGAAAAGAAAGTGGGGAGAGACAGGAACAGGGTCC  
GGAGCAGCCCCAGCAGCAGCATTGAGGTGGAGCAATATGTCGGACGCCTTGGCCAACGCCGTGTGCCAGCGCTGC  
CAGGCCCCGCTTCTCCCCCGCCGAGCGCATTGTCAACAGCAATGGGGAGCTGTACCATGAGCACTGCTTCGTGTGT  
GCCCAGTGCTTCCGGCCCTTCCCCGAGGGGCTCTTCTATGAGTTTGAAGGCCGGAAGTACTGCGAACACGACTTC  
CAAATGCTGTTTGCTCCGTGCTGTGGATCCTGCGGTGAGTTCATCATTGGCCGCGTCATCAAGGCCATGAACAAC  
AACTGGCACCCGGGCTGCTTCCGCTGCGAGCTGTGTGATGTGGAGCTGGCTGACCTGGGCTTTGTGAAGAATGCC  
GGCAGGCATCTCTGCCGGCCTTGCCACAACCGTGAGAAGGCCAAGGGCCTGGGCAAGTACATCTGCCAGCGGTGC  
CACCTGGTCATCGACGAGCAGCCCCCTCATGTTTCAGGAGCGACGCCTACCACCCTGACCACTTCAACTGCACCCAC  
TGTGGGAAGGAGCTGACAGCCGAGGCCCGGAGCTGAAGGGTGAGCTCTACTGCCTGCCCTGCCATGACAAGATG  
GGCGTCCCCATCTGCGGGGCCCTGCCGCCGGCCCATCGAGGGCCGAGTGGTCAACGCGCTGGGCAAGCAGTGGCAC  
GTGGAGCACTTTGTCTGTGCCAAGTGTGAGAAGCCATTCTGGGGCACCAGGCACTATGAGAAGAAGGGCCTGGCC  
TACTGCGAGACTCACTACAACCAGCTCTTCGGGGACGTCTGCTACAAGTGCAGCCATGTGATTGAAGGCGATGTG  
GTGTGGGCCCTCAACAAGGCCTGGTGTGTGAGCTGCTTCTCCTGCTCCAÇCTGCAACAGCAAGCTCACCCCTGAAG  
AACAAGTTTGTGGAGTTCGACATGAAGCCCGTGTGTAAGAGGTGCTACGAGAAGTTCCCGCTGGAGCTGAAGAAG  
CGGCTGAAGAAGCTGTGCGAGCTGACCTCCCGCAAGCCCAGCCCCAAGGCCACAGACCTCAACTCTGCCTGAAGGC  
CCTCTTGCGCAGTGCTCTCGGGCCCTCCGCCTTCTCCCCCTCCTGCTGTCCATGCTTGGCCCCCTCGTCCCCATC  
CACCTGTGCCCTCCGCATCTTACCCTCCCTTTCTCTTTCCTCATTGCCTTCTCCCTTCTGTTCCCTCATCTCTG  
CCTTCCCCATGTCTCTCCTCTCCTTGCCCGTGGCTTCTGTCTGTGAGGAGGCAGGAGCTGGGGAGTGGGAGCCTA  
TGACCCACAGTCTGACAGCCATGTCCACCTGTGCCACAGCTTCCGCCCACAGACCTCCAGGGACAGGAGCAAT  
TGCACCACAGCTCCCCGCTGGCCTGGCCCTCCCCAGGCGGCTCAGTGGCTCATGCTGTCTGTTGAGAGCCCCCTG  
CCCCAGAGCGGGCCCCACTAAGCGCATGTGGCTCCTGGGCTACCCACAGCCAGGGCAGCCTGCTGGAGCCACAGGG  
CCAGGGCCATGCAGATGGAGGCCTCTGGGAGCCACCTCCAATCCCTCACCCTCACTCAACCAGTGGCACAGTGT  
CCTTGTGCCCACACTGAGCCAGCAAGTCTGCTGTCCACACCCACAAGCTACCTGGAGGGACAGGACCCACCTCC  
ATCCTTCGGAAGGCCTTCTGGAATCCACCTTGGCCTCCGCCCTCGGTTCCGCCCCGCCCCCTCTCCCCCGACC  
TTGGGGCTTGTGTGAGCCCTTGGGTGGGGCCAGGAGGAGGTGATGGCGTCAGAGGAGGTGTGGTCAGAGGTGAC  
TTGTTCCACCTCCAGGGAGGACGCTTCGTCTTCGGCCAGCGCAGACCTGGTGTGTTGTTGTTGGGCTCACGCTT  
GCACAATGAAGGCTTGTTACAC

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**FIGURE 854**

CCGACACCCACGGGCGGAGATCACCTGCTGCCCCGCAGACCCCTGTCCCTTCCTCCCGGACCAGCAGCTAGAGGA  
TGTCCAAACGGAGTTGGTGGGCTGGATCCAGAAAGCCCCAAGAGAGATGCTGAAACTCTCAGGCTCTGACTCCA  
GCCAAAGCATGAATGGCCTTGAAGTGGCTCCCCCAGGTCTGATCACC AACTTCTCCCTGGCCACGGCAGAGCAAT  
GTGGCCAGGAGACGCCACTGGAGAACATGCTGTTCGCCTCCTTCTACCTTCTGGATTTTATCCTGGCTTTAGTTG  
GCAATACCCTGGCTCTGTGGCTTTTCATCCGAGACCACAAGTCCGGGACCCCGGCCAACGTGTTCCCTGATGCATC  
TGGCCGTGGCCGACTTGTCTGTGCGTGTGGTCCCTGCCCCACCCGCTGGTCTACCACTTCTCTGGGAACCACTGGC  
CATTTGGGGAATCGCATGCCGTCTCACCGGCTTCCTCTTCTACCTCAACATGTACGCCAGCATCTACTTCTCTCA  
CCTGCATCAGCGCCGACCGTTTCCTGGCCATTGTGCAACCCGGTCAAGTCCCTCAAGCTCCGCAGGCCCCCTCTACG  
CACACCTGGCCTGTGCCTTCCTGTGGGTGGTGGTGGCTGTGGCCATGGCCCCGCTGCTGGTGAGCCACAGACCG  
TGCAGACCAACCACACGGTGGTCTGCCTGCAGCTGTACCGGGAGAAGGCCTCCCACCATGCCCTGGTGTCCCTGG  
CAGTGGCCTTCACCTTCCCGTTTCATCACACGGTCACTGTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCC  
TGCGTGTGGAGAAGCGCCTCAAGACCAAGGCAGTGCAGCATGATCGCCATAGTGTGGCCATCTTCTGGTCTGTCT  
TCGTGCCCTACCACGTCAACCGCTCCGTCTACGTGCTGCACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGC  
GCATCCTGGCCCTGGCAAACCGCATCACCTCCTGCCTCACCGCCTCAACGGGGCACTCGACCCCATCATGTATT  
TCTTCGTGGCTGAGAAGTTCGCCACGCCCTGTGCAACTTGCTCTGTGGCAAAGGCTCAAGGGCCCCCCCCCA  
GCTTCGAAGGGAACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTGTAGCGGGGGGCGCCGTCCAGGGCCG  
AGCGCAGACTGTTTAGGACTCAGCAGACCCAGCAAGAGGCATCTGCCCTTTCGCCAGCCACCTCCCCAGCAAGCA  
ACCTGAAATCTCAGCAGATGCCCACCATTTCTCTAGATCGCCTAGTCTCAACCCATAAAAAGGAAGAAGTACAA  
AGGGGATCCATCGGCCACCCCTCTGCAGGGGCTTGTGATGGCTACAATGGCTCCTAGACACTCAACGACTTCATC  
TGTGGCAGGGAGAGAGAGGAGGCCGGAAGAACAACCCCTGAACAATGGAGGCCTTTCTTTCCCGCTAGGCTCCCAGC  
CTCCTTCCCGCTACAGAATCGCTCATCGGCGAGGCTCAGCAGAAAGACCCTGAAGGCAGGCTGCAAATGACCCAG  
AAGAGGGACCTGGGAGTCTGGTGGGGACGGGGAGGGAGTCTCAATACTCCTTTGCAGCGCAAGGTACTCTGAGT  
CCCCTCTGTAGTGCCTCTGCCAGACACACACTGCCTGAGTTGAAGAGACACAGGCCACACATTTAGGCTGGTTG  
CCAGCGGACGTCAGCACTCACGGCCTGCGGGGACTCAGCACAGCTCTGGATTCTGGATCTCTCCTGCTGTAACCC  
CACGCACAAGCCTGCAACCCCCAGAGCTCTTTGACAGGCTCCCAGGCCTCCCAGTCTGGACAAGCATGTGCAGT  
CACGGGAGCTCAGCTCAGGCCAGGGCTGGGCTGTGCACCTGCCTCCCACTGACCCAGACCCACTTCTCCAGAGA  
GGCCTCTCTCCGCCTGAGCTATTTCCCTTGCTAGTGTGCAGATATTTCCCTAACATGTCCTTTTTTGTATTTGTT  
TGTACGGACCATAAATATAACTGTAGCTTTAAGACTAAAAA



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**FIGURE 855**

MSKRSWWAGSRKPPREMLKLSGSDSSQSMNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALV  
GNTLALWLFIRDHKSGTPANVFLMHLAVADLSCVLVLPTRLVYHFSGNHWPFGEIACRLTGFLFYLNMYASIYFL  
TCISADRFLAIVHPVKSLKLRPLYAHLACAFLWVVVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSL  
AVAFTFPFITTVTCYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQ  
RILALANRITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPPPSFEGKTNESSLSAKSEL

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**FIGURE 856A**

GGGGAAGATGGCGGCTGCTCCTTTGGAGGAGCGGGATTGAGAGGATCGGGGTGGGGAGACCAAACAAGAGAGACA  
TTTCTGGCTCTGAAGGCGAACGCTTCGCTGGCCATTTAGGAGCTCTGCTCAAAGCCAGACGTATCCTAGAAGGAA  
AACATCACCATGGCTACAGAAATTGGTTCTCCTCCTCGTTTTTTCATATGCCAAGGTTCAGCACCAGGCACCT  
CGACAGCTGTTTTATAAGCGACCTGATTTTGCACAACAGCAAGCAATGCAACAGCTTACTTTTGATGGAAAACGA  
ATGAGAAAAGCTGTGAACCGAAAAACCATAGACTACAATCCATCTGTAATTAAGTATTTGGAGAACAGAATATGG  
CAAAGAGACCAGAGAGATATGCGGGCAATTCAGCCTGATGCAGGTTATTACAATGATCTGGTCCCACCTATAGGA  
ATGTTGAATAATCCTATGAATGCAGTAACAACAAAATTTGTTCCGACATCAACAAATAAAGTAAAGTGTCCTGTA  
TTTGTGTAGGTGGACTCCAGAAGGAAGACGCTTGGTCACTGGAGCTTCTAGTGGGGAGTTTACCCTGTGGAAT  
GGACTCACTTTCAATTTTGAAACAATATTACAGGCTCACGACAGCCAGTGAGGGCCATGACGTGGTCACATAAT  
GACATGTGGATGTTGACAGCAGACCACGGAGGATATGTGAAATATTGGCAGTCGAACATGAACAACGTCAAGATG  
TTCCAGGCACATAAGGAGGCGATTAGAGAGGCCAGTTTCTCACCCACGGATAATAAATTTGCTACATGCTCTGAT  
GACGGCACTGTTAGAATCTGGGACTTTCTTCGTTGCCATGAGGAAAGAATTCTCCGAGGGCATGGTGTCTGATGTG  
AAATGTGTAGACTGGCATCCAACCAAGGGTTAGTTGTTTCAGGAAGTAAAGATAGTCAACAGCCAATCAAGTTC  
TGGGATCCCAAGACTGGGCAGAGTCTTGCAACACTTCATGCCCATAAAAACACAGTAATGGAAGTGAAATTAAAC  
CTCAATGGCAATTGGCTACTCACAGCATCACGTGATCATCTCTGTAAACTTTTTGATATCAGAAACCTAAAAGAA  
GAGCTTCAAGTCTTCCGAGGTCATAAGAAAGAAGCCACAGCTGTGGCCTGGCATCCTGTTTCATGAAGGACTTTTT  
GCCAGTGGAGGGTCTGATGGTTCTTTGTTATTCTGGCATGTTGGGGTAGAGAAGGAAGTGGGTGGGATGGAGATG  
GCTCACGAAGGGATGATCTGGAGTCTGGCTTGGCATCCTCTTGGGCATATTCTCTGCTCAGGCTCAAATGACCAT  
ACTAGCAAATCTGGACTCGAAAACCGACCAGGTGATAAAATGCGAGATCGATATAATCTAAACCTTTTACCTGGA  
ATGTCTGAAGATGGAGTAGAATATGATGACCTCGAACCTAATAGCCTGGCAGTAATTCCAGGAATGGGAATACCA  
GAACAATAAAATTAGCTATGGAACAAGAACAGATGGGGAAAGATGAATCAAATGAAATTGAAATGACAATTCCA  
GGTTTAGATTGGGGAATGGAGGAAGTGATGCAAAAGGATCAGAAAAAGTACCTCAGAAGAAAGTTCCTTATGCA  
AAACCCATTCTGCTCAGTTCCAGCAGGCTTGGATGCAAAATAAAGTTCCAATTCTGCTCCAAATGAGGTGCTG  
AATGACAGAAAAGAAGACATTAAATTGGAAGAGAAGAAAAAACACAAGCAGAAATTGAGCAAGAAATGGCTACA  
TTACAATATACTAACCACAACTTCTGGAGCAACTTAAATTGAAAGACTTGACAGAAAACAAGTTGAGCAAATT  
CAGCCTCCTCCCTCATCTGGCACCCCTCTCCTCGGACCCACGCTTTTCCAGGACAAGGTCCAATGTCTCAGATT  
CCTCAAGGTTTTCAACAGCCCCATCCATCTCAGCAGATGCCAATGAACATGGCTCAAATGGGGCCTCCAGGTCCA  
CAGGGACAGTTTAGGCCTCCTGGACCCACAGGACAAATGGGACCACAAGGTCCTCCACTGCATCAGGGAGGTGGG  
GGGCCACAAGGATTCATGGGACCACAGGGGCCCCAGGGCCCGCCCCAGGGGTTGCCACGGCCTCAGGACATGCAT  
GGGCCCCAAGGAATGCAGAGGCATCCTGGACCTCATGGCCCTTTGGGACCTCAAGGGCCACCTGGACCACAAGGT  
AGTTCTGGTCTCAAGGTCAATATGGGTCTCAGGGTCCACCTGGCCACAGGGTCACATAGGCCCCCAAGGCCCG  
CCTGGCCCTCAGGGTCACTTGGGCCCACAGGGGCTCCGGGTACTCAAGGTATGCAAGGACCACCTGGTCCCAGA  
GGAATGCAAGGGCCTCCTCATCTCATGGGATCCAAGGCGGACCAGGGTCTCAAGGGATCCAAGGTCTGTGTCT  
CAGGGACCTCTGATGGGATTGAATCCAAGAGGAATGCAGGGGCTCCAGGGCCCCGGGAGAACCAGGGTCTGTCT  
CCCCAAGGGATGATTATGGGCCACCCGCTCAAGAGATGAGAGGACCTCACCTCCAGGTGGACTACTGGGACAC  
GGCCCTCAGGAAATGAGAGGTCTCAGGAGATCCGAGGCATGCAGGGGCTCCACCCCAAGGATCAATGCTGGGA  
CCTCCCCAGGAATTGCGAGGGCTCCAGGCTCACAAAGTCAGCAGGGGCGCCCCAGGGCTCTTTAGGACCTCCA  
CCCCAGGGTGGCATGCAAGGACCCCCCGGACCTCAGGGACAGCAGAACCCAGCAAGAGGGCCACATCCATCTCAA  
GGGCCAATACCATTCCAGCAACAGAAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGA  
CAGAGCACAGGCCCCCACCCTGATACCAGGCCTAGGGCAGCAGGGAGCACAAGGTGCGATTCCCCCTCTGAAC  
CCCGGACAAGGACCTGGCCCCAACAAAGTTTTCAGAAGAGGAGCCCCGCGGAGGCATGAGGGCCGTGCTCCCCCA  
GAGGAAGGGATGGTTTTCTGGTCTCTGAAGACTTTGGTCCAGAGGAGAATTTTGATGCTTCTGAGGAAGCGGCC  
GAGGACGAGATCTCAGAGGTGAGGTGCGGGTACCCACAGGAGGAAGGAAGGGTTTACTTCCCACTCTTGACG  
AGTTCCCTCGCTTTGAAGGAGGGCGGAAGCCAGATTCTTGGGATGGAACAGAGAGCCTGGGCCAGGTCTGTAAC  
ATTTTCGTGATACTCCCCGCCCTGATCATCCCCCTCACGACGGTCATTCCCCAGCCAGCAGAGAACGCTCCTCTT  
CTCTCCAAGGCATGGACATGGCATCCCTACCTCCCCGAAAGCGCCCCCTGGCATGATGGGCCAGGCACTTCTGAGC  
ACAGAGAGATGGAGGCCCCAGGAGGCCCTTCTGAAGACCGAGGAGGCAAAGGCCGAGGGGGCCAGGACCTGCTC  
AGAGAGTGCCCAAATCTGGGCGTTCCAGCTCCTTAGACGGAGAGCACCACGATGGATACCACAGAGATGAACCTT

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**FIGURE 856B**

TTGGGGGCCCTCCAGGCAGTGGCACCCCTTCTCGAGGGGGCCGGAGTGGCAGTAACTGGGGTAGAGGGAGTAACA  
TGAACCTCTGGCCCCGCCGAGGCGAGGAGCTTCACGGGGTGGTGGAAGGGGTCGGTAGAAGCTGGAACCTGAGTACCC  
TGAGGCCTCTCTGGACAGTATGTAAGAACTTCTTGTGGACTCACCAAGAGAAACAAAAGGAAGCCTGCACCATTG  
TAGCCCTGAACTCTTTTCTGGGCACCTGAATCCCAGGAACCTCAATGAGGTCTTCAAGATGAAGAGACTGCTGC  
CAGCTACCAGCCTGGCTGGCCCTGTCCTGTCCACCCTCATTGCCCCAACTCCCATGTTGTTTTGTGAAGATAAAA  
GCTGGGATCTTTTTCTTTTTTTAAGTCTCACAAGACATGGGGCATCTCCACAAATTTAAGTTCCTGTCCATTG  
GAAATTTGTTTCTATGTGTACAGTTTGTGAGAGAAAAACAAAGTTTTTGTATGAATACAGAATGTGATTTACGCA  
AGAATTGACAGAAAACCTAGTTGTGAAGTGCTTGCCCTTAAGGAAACCTTTGGTTTCCATCGCATCCCATCTGCCAA  
GGAATGCACGGTTGTGTGCTGATGTTTCATGAGCATATTAACCACTAGGTTATCTAAATTAATCTCAGCTGTGAAC  
TTGTGTTTTTCAACACATTCTGTGCACACCATTTTTGTGACAGAAAAATACTTGAAAAATTATTCTAATGTAGTTG  
TAGTAGGTTCAAAATTTTATTTCAGACATGCTCTGACAGATGGAAAATTGTACTCTGAAGAGAAAAATGCAATCTTC  
TGGATGTCCAACGAGGGAGCTTCCCCTTGAAGCATCTCCTAAGAATCACAGTTTAGGTTTGAATCGCCTTGTTA  
TGATGAGGAGAGGAACCTTGATGTTAGTCAGAAATAAAGTCACATGCCCTTTAGATAACTTGAAATCACACATGGA  
GTTGATAAGGAATGGACCAAAATAGGTCCTCAACAATTTTGCAACACTTAATTAAGTTTTCTCTCTTCTCTT  
CCATACTATGTGGAAATACCAGTGTTACGGCAGGGCGTACTTCTAACTCACAGTAAGCCAGATAGATCTTGTCCA  
TGGCAAATTCCTTGTTTAAAAATAACATACCATTTAGCCCAGTTTGGATTGGAAGCCAAAAATTCAGTTTGTAT  
ATACCCCATGATACTTTCTATACTGACCTTTATTTTGGTTTTACATGGAAGCTTTTATTAAAAGGACTGTCCTAT  
GGCCACCTTAACATTTTATTACATTGGCAGCTTCAGTTTTGGCATCAGTCAAATTTATTTGGCAAATTTAGTGGT  
GCTGGAAGTTTCTTTTTTCTTTTCTTTTTTGTGACAGAGTCTTGCTCTGTCAACCAGCCAGGAGTGCAGTGGTGC  
AATCACGGCTCACTTCAGCTTTGACCCCTGCCTCAGCCTCCCTAGTAGCTAGGACTACAGGCATATGCCACCATGC  
CCAGCTAATTTTTTGTGTGTGTGTTTTTGTAGAGATGGAGTTTCACCACTTTGTCTATGCTGGTTTCAAACCTC  
TGGGCTCAAGCGGTCCACCTGCTGTGGCCTCCCAAAGTGCTGGGATTGCAGATCTGAGCCACAGTACCTGGCCGC  
TGGTGCTGGAAGTTTCAATGGTTGCTTAGAAAAGGCATACTGATATAGTTTAAACAGGATATGAAAATTTAACTGG  
TTCTCTATGAATGTAAAAAACAGCAAAAGCTAATTGATTTCTGTGGAGTGAGAAAATGTCAGCCATATACACTGC  
TTTTCAGTGTTAGAATCTAGAGACTATTTTTTTTTTAACTTTGAAATTACAGCTTATTTAATCAGCGCTCCACCA  
TAAACATGCTATTAGGAGGCTCAAGATTGCTTTAGGTTATGGGTATTTCTTCACTCACCCCCAACTGGTATAGCT  
TAAAGAGAGAGAACTGTAAATCAAATTTTCATGAAGCTAAAACCGGATCCAGAGACCAAACCCATATCAAGATTAG  
ACTTTTTTTCCCTGAGATTCTAGTGGAATAATTTTCAATTTTGGGCTTTAACTTTAGAAACATAGTATCTCAG  
TAAGCAGATAACCAGATCACATTTAAAAATTTTCAATTTTACCTTGAAGCTCTACTGGACTTGACAGATCACATTT  
TGAGAGTGAATTCATTTAAACAATAAACCTCTACATTATACTTAT

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**FIGURE 857**

AGAACATCCAGTCACGGATAAAAATGAGCTGGTTCAGAAGGCCAACTGGCCGAGCAGGCTGAGCAATATGATGA  
CATGGCAGCCTGCATGAAGTCTGTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGT  
TGCTTATAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAACGGAAGG  
TGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGTAATGA  
TGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAAT  
GAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAGTCACA  
ACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCTGAGATTGGGTCTGGC  
CCTTAACCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGCTTTTG  
ATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTGA  
GAGACAACCTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTAAC  
CGGCCTTCCAACCTTTGTCTGCCTCATTCTAAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCACAAA  
TAGTTTTTTGTTTTATGATTTATGACAGGTTTATGTTACTTCTATTTGGATTTCTATATTTCCCATGTGGTTTTTA  
TGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGTATCTGTTTTTCATCTTGAGGTGGCCAATATTG  
GGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAG  
TGTAAACTGCTTCCATGTCTAAGCAAAAGAAAACCTGCCTACATATTGGTTTGTCTGGTGGAGAATAAAAGGGAT  
CATTGATTCCAGTCAGAGGTGTAGTAATTGTGGGTACTTTTAAGGTTTGGAGCACTTTACAAGGCTGTGGTAGAA  
ACATACCCCATGGATACCACATGTAAACCATGTATATCTGTGGAATACTCAGTCTCATTGTGCACACCTTTGAC  
TACAGCTGCAGAAGTTTTCTTTAGATAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACAGTTCACAT  
TCCATTATTTGTAAAGTTACCTGCTGTTAGCTTTCATTATTTTTGCTACACTCATTTTATTTGTATTTAAATGTT  
TTAGGCAACCTAAGAACAAATGTAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCAATTGCTTCATGTA  
TATCAAGCACAGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGTTTTTGTCTTTGTGATTTTTTTT  
TGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAAGGAAATAACTTGAGATGATGGCTAGCTTTGTT  
TAATGTCTTATGAAATGTTTCGTGGATAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTGG  
AATAAAAGTTTTATGAATGGACTTTTCACTACTTCTCTACAGCTTTTCGTGTAAATTAGTCTTTTGGTTCTGA  
AATTTCTCTAAAGGAAATTGTACATTTTTGAAATTTATTCCTTATTCCTCTTGGCAGCTAATGGGCTTTTAGTA  
AGTTTAAACAAAAATTTATCATAACAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCC  
GTCTCTTCTCCCCACCCTGAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGAGATTAATTGGAAAAAATG  
TTAATATGTTCCATTTAAAATTTTGGTATATGGCATTTTCTAACTTAAGAAGCCACAATGTTCTTGGCCCATCAT  
GACAATGGGTAGCATTAACATAAGTTTTGTGCTTCCAAATCACTTTTCGGTTTTTAAGAATTTCTTGATACTCC  
TACAGCCTGCCTTCGATTTTGATCCTTTATTCTGTTTGTGAGGTGCACAAGATTACCTTCCTTTTTTAGCCATCT  
GTCTTGTCACCAACCATTCCTACTTGGTGGCCATGTACTTGAAAAAGGCCGATGATCTTTCTGGCTCCACTCA  
ATGTCTAAGGCACCCTGCTTCCTTTGCTTGATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAATTGT  
CTCCTTAGTTGACGAGATTGTGTTTATCTCCCTTTAAAAACCTACCTATCCTGAATGATCTGTCAATTGTCTGCC  
TTAAATCCTTCCTCTTTCTTCTCTATTCTCTAAATAATGATGGGGCTAAATTATACCCAAAGCTCACTTT  
ACAAAATATTTCTCAGTACTTTGCAGAAAAACACCAAAACAAAAATGCCATTTTAAAAGAGGTGTATTTTTCTTT  
TAGAATGTTAGAATGTAAGCTCCTCAAAAGCAGGGACAATGTTTTCCGTATGTTCTACTGTGCCTAGTATACTGT  
AAATGCTCAATAAATACTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAAACCGAAATCCC

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**FIGURE 858**

GATGACATGGCAGCCTGCATGAAGTCTGTAACTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC  
TCAGTTGCTTATAAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAACG  
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGT  
AATGATGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTG  
AAAATGAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAG  
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCAGATTGGGT  
CTGGCCCTTAACTTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGC  
TTTTGATGAAGCCATTGCTGAACTTGATACATTAAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATT  
ACTGAGAGACAACCTTGACAATGTGGTTTTTATGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGT  
ATCTGTTTTTCATCTTGAGGTGGCCAATATTGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTAC  
TTTTG

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## FIGURE 859A

TTTTCGGCGCCGTGGCGGAATGGCGGCTTCCATCTCTGAGGCGAGCGACGCTATGGATCCCACAGTGGTTTGCTA  
AGAAGGCCATTTTCAACTCTCCACTGGAGGCTGCTATGCGGTTCCCTCACCTGCAGCAGCCCAGCTTTCTACTGG  
CTAGCCTGAAAGCTGACTCTATAAATAAGCCCTTTGCACAGCAGTGCCAAGACTTGGTTAAAGTCATTGAGGACT  
TTCCAGCAAAGGAGCTGCACACCATCTTCCCATGGCTGGTAGAAAGCATTTTTGGCAGCCTAGATGGTGTCTCTCG  
TTGGCTGGAACCTCCGCTGCTTACAGGGGCGCGTGAATCCTGTGGAGTACAGCATCGTGATGGAATTTCTCGACC  
CTGGTGGCCCAATGATGAAGTTGGTTTATAAGCTTCAAGCTGAAGACTATAAGTTGACTTTCTGTCTCCTACT  
TGCCTGGTCTGTGAAGGCGTCCATCCAGGAGTGATCCTCCCTGACAGTCTCTGTACCACAACAAGGTCCAGT  
TCACCCCTACTGGGGGCTTGGTCTGAACTTGGCCCTGAATCCGTTGAGTATTACATATTCTTCTTTGCCTTGA  
GCCTCATCACTCAGAAGCCACTTCTGTGTCCCTCCACGTCCGTAATTCAGACTGTGCCTATTTTCATCCTGGTGG  
ACAGGTACCTGTATGGTTCTTGCCACCGAAGGCAGTGTGCCCCACCCTCTCTCCAGCCCAGGGGGGACCA  
GCCCCCTACCCACCTCCCAGGACACCAGCCATACCCCTTTGCTTCTATGGCCTCCACCACACTAGCCTCCTAAAGC  
GACACATCTCTCATCAGACGTCTGTGAATGCAGACCCCGCTCCACGAGATCTGGAGGTGAGAACTCTGTCTCC  
AGGTTTTTTGTTGAAATGTGGCTTTCATCACTATTCTTGGAGATGTATCAAAAAATGCAGTCCCTCATGCCAAGG  
AGTCGTTACGCCTACTGAGGAGCATGTGTTGGTGGTGCCTGTCTGTAAGCACCTGCACGCCTTTGCCAACA  
GCCTGAAGCCAGAGCAGGCCTCACCCCTCCGCCCCACTCCACGCCACCAGCCCCCTGGAGGAGTTCAAACGGGCTG  
CTGTCCCAGGTTCTGTCCAGCAGAACTCTACCTCTTCTTGACGATTTGCTTTGGCCACTGGCCCTGGACGCAT  
CGTTCAGAGCTGTCTGGAGATGTGGCTGAGCTACCTGCAGCCGTGGCGGTACGCGCCTGACAAGCAGGCTCCGG  
GCAGCGACTCCCAGCCCCGCTGTGTGTCGGAGAAATGGGCACCCCTTTGTCCAGGAGAACCTGTGTATGTACACCA  
AGTTGTTTGTGGGCTTTCTGAACCGCGCTCCGCACAGACCTGGTGCAGCCCCAAGCACGCGCTCATGGTGTTC  
GAGTGGCCAAAGTCTTTGCCAGCCCAACCTGGCTGAGATGATTAGAAAGGTGAGCAGCTATTCTGGAGCCAG  
AGCTGGTCATCCCCACCGCCAGCACCGACTCTTACGGCCCCACATTCACTGGGAGCTTCTGTACCCTGGC  
CACCAGCGGTCACTGATGCCTCTTCAAGGTGAAGAGCCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACA  
CCCCGATGTTTGGGCCCCAGGCCCCGACCCCTGGTCTGCGCTCGCTCAGCTCATCACACAGGCCAAACACACAG  
CCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGCTGGCCACTCCTTCTCTCATGGCTGGGCTTTAGCTCCA  
TGGACACCAATGGCTCCTACACAGCCAACGACCTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAAT  
ACCTGGAGAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCGCAGCTCAGGCAGTTCACACTCG  
CCTTGGGCACCACCCAGGATGAGAATGGAAGCAACTCCCCGACTGCATCGTGGGTGAGGACGGACTCATCC  
TTACGCCCCCTGGGGCGGTACCAGATCATCAATGGGCTGCGAAGGTTTGAATTTAGTACCAGGGGGACCCGGAGC  
TGCAGCCCATCCGGAGCTATGAGATCGCCAGCTTGGTCCGCACACTCTTTAGGCTGTCTGTCTGCCATCAACCACA  
GATTTCAGGACAGATGGCGGCTCTGTGTTCCGGGATGACTTCTCCTCGGCAGCTTCTGTCTGCTACCACCTCACAG  
AACCTGGGCTGGCCAGCAGGCACCTGTGAGCCCTGTGGGGCGGAGGCAGGTGGCCGCCACACCCGCGGCCCA  
GGCTCAGCCTGCGCTTCTTGGGAGTTACCGGACGCTGGTCTCGCTGCTGTCTGGCCTTCTTCTGTGGCTCTCTGT  
TCTGCGTGGGGCCCCCTCCATGCACGCTGCTGCTCACCCTGGGCTATGTCTCTACGCCTCTGCCATGACACTGC  
TGACCGAGCGGGGAAGCTGCACAGCCCTGAAGGTGTCAGCTGCCTTACAGAGCAGGCTGGAGGGATTGCCACA  
CAGCCCCACCTTGGGCTGAGAGGACCTGGGAAGCCCTCCAGGAGGGAACACGGTCATCCTCGGGCTTCTGGAG  
CGGGGTTCTTGCAGCCGAGAGGCATCTGGAGGAACGCAACCAAGAAAGGAAGGCAGGTGGGCCCCAGCAAAGG  
AGTAGCTGCCAGGGCTCAACAGCTACGCTCTGTGACAGCGCAGAGCTCAGCGGCGGCCTTTCCCTCCCTCCGCCA  
AGGACTCACGGCCAAGCCAGCTCTCGGGGCCCTTTTTTCCACTGCCCATTGGCTACTCTGTGCACCAAGCTTGG  
GAGCCAGCCTGCCAACAGCCACCTGGGCTGGCCTCCCCACTGGCTGGCCTTGGAGTTGGCAGAGTGGGTTGTGG  
CGCTTCTCTCTCTGTGTGGGACCAGGACAGTGGCTTAAGTCTCCACTCCAGGAAAGAATCAAAGTTTCTAGAGT  
TGTGAGAAAACCAGAGAGTGGCTGTCTGATTCTTCACTGTGAGGGGCGTTCTTCATGTTCTCCAGCTGTTCCA  
AGACTGGGCGGTAGAAATTCATGTTTTCAGGAGCCTAAGACCCTCCAGAGCCCAGGGGCTTACCCGAGACCCCA  
AGCCATTGAGCACATACCCAAAGCAGTGGCCAACATCGCGGACCCCTGTGCCCTTGTACAGATGGGTGCTGGTC  
CTCAGGCGTTGGGGACACTGCTGGGTGATGGGGTCGATTCTGCCAGTTTCTGCTCTGCAGCCAAAGATGGTCA  
GAAGCATTGTCACTTCACTAACATCAAGTGCTCAAAGACATGGCAACCGTTCACTGGTACTTAAGTATTCAAAT  
ATACAACTACAGATTCTCTGACAGAAACCAGCACGGGGTCTTACCTTCACTTACCCACAGGCGACATGCGAGG  
GAGAACAGCATCTCAGTGGTGATTTCCAAACCAAGCCTTTGTTTTCGGTGTGGGGTTTTGGGGGTTTGGCTTAAT  
GTTTTTGAAATTTGTAATGTGGGCTTTGTATTTTGATGTAACTGAGCATAATGGCATTTTAGGGCCTGTGACC

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**FIGURE 859B**

AAAATGAAGCTTGTAACGACCCATGGATCTGAATAAACATGTCCTTGCTTCTGAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 860**

MAFPHLQQPSFLLASLKADSINKPFAQQCQDLVKVIEDFFPAKELHTIFPWLVESIFGSLDGVLVGWNLRCLQGRV  
NPVEYSIVMEFLDPGGPMMKLVYKLQAEDYKDFPVSYPGPVKASIQECILPDSPLYHNKVQFTPTGGLGLNLA  
LNPFEYYIFFFALSLITQKPLPVSLHVRTSDCAYFILVDRYLSWFLPTEGSVPPPLSSSPGGTSPSPPPRTPAIP  
FASYGLHHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQKMQSPHAKESFTPTTEHVLV  
VRLLLKHLHAFANSLKPEQASPSAHSHATSPLEEFKRAAVPRFVQQKLYLFLQHCFGHWPLDASFRVLEMWLSY  
LQPWRYAPDKQAPGSDSQPRCVSEKWAPFVQENLLMYTKLFVGFLNRALRTDLVSPKHALMVFRVAKVFAQPNLA  
EMIQKGEQLFLEPELVIPHRQHRLFTAPTFTGSFLSPWPPAVTDASFVKVSHVYSLEGQDCKYTPMFGPEARLTV  
LRLAQLITQAKHTAKSISDQCAESPAGHSFLSWLGFSSMDTNGSYTANDLDEMGOQSVRKTDEYLEKALEYLRQI  
FRLSEAQLRQFTLALGTTQDENGKKQLPDCIVGEDGLILTPLGRYQIINGLRRFEIEYQGDPELQPIRSYEIASL  
VRTLFRLLSSAINHRFAGQMAALCSRDDFLGSFCRYHLTEPGLASRHLLSPVGRRQVAGHTRGPRLSLRFLGSYRT  
LVSLLLAFFVASLFCVGPLPCTLLLTGVLVYASAMTLLTERGKLHQP



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**FIGURE 861**

GGCGCCGAGTAGCCGGGCGGGCCGGAGCGCGGGCGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA  
GGCCCCGCGCCCCGCGCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCGCGCCGGCGGCAGGACCATGGT  
TGAGCGCGCCAGCAAGTTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTAACAGTACGCGGG  
CCCAGGACTGAGCCTGGGCGCGCCCGGGCGCGCGCGCCGACGACCTGGACCTGTTCCCCACGCCCGACCC  
CCACTACGAGAAGAAGTACTACTTCCCAGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA  
CGTGATCGTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGAGAACGTACGCCT  
CGAGGTGCCGTGCGACTGCCGGCCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCCAACCGCCGCGAGACTTGGCT  
CTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTACCAACTGCGTGCCCCG  
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCAGGAAGTTCTACTACATCACCTGCTACGAGACCC  
CGTGTCGCCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTGCTTGATATGTGTGA  
TGGGCGCACGCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGA  
GTTTCATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG  
CTACAACCTGTCTTCATCCCCGAGGGCAAGCGGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCCTGCGGGG  
CATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTT  
CATCCGGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGGCGTGGAGGTGGATGAAGACACCATCCGGCGCAT  
CGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAA  
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACT  
GCCGCGGGAGGATGCCGACGAGCCGGGCGCGTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA  
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA  
GACTGTCAAGGGATGAGCATCCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTTGAAAAAACAGAGCAGGGATG  
TAGTGGGGCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTGAGAGGAAAGCGTGCTCG  
AAGGATGCCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGATT  
TATCGCAAAACTGAAGTTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCC  
TCACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAA  
CTGCCCCAGCTCCAGGCCATCCCATAGCCCCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCC  
CAGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCC  
CAGGAAGCCTGCTCCCTCTCTGCCCCATGGTCCTGCTTCATGCTTTGGGTGAGGAGGCCAAAGCTGATGTTTCAG  
GCCCCACCCACTCCCTACAGTCCTCAGACC

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**FIGURE 862**

GACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC  
CTGTCTTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC  
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCGAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG  
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG  
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG  
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG  
GAGGATGCCGACGAGCCGGGCGCGTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG  
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACAGGTTCCACCCAAGACTGTC  
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTGAAAAAAACAGAGCAGGGATGTAGTGGG  
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTGAGAGGAAAGCGTGCTCGAAGGATG  
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGATTATCGCA  
AAACTGAAGGTTTTCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA  
CTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC  
AGCTCCAGGCCATCCCATAGCCCCCTCCTCTTCTGGCTGCCCCAATGCCCCGAGGCCTGGGGAGCCCCCAGTCA  
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG  
CTGCTCCCTCTCTGGCCCATGGTCTCTGCTTCATGCTTTGGGTGAGGAGCCAAAGCTGATGTTTCAGGCCCCAC  
CCTCCCTACAGTCTCTAGACCAAGGAGGGGTTTGGGTAGTAGGCCCGAGCTGCATTGCCGGCCTTCTCGGGC  
CAACTGGCAGCCCAGGAGTGGGGAGGCTTTGGCCAGGGATGCTGCCACTTGTGCGTGAGTCCGCGGCTGGCCCTT  
GGAGGTGACCATCCAGGCAGGCCTGGCTCAGACTGGAAGGGCTGGGGACCGAGGGCTCCCCTGCCTCTGTTCTCC  
TTTCTGACCCACTGGGATTTGCTAGCAGGCTGCCCCAGCCCCATCACCGAAACACATACTCAAGAGCTCAAATAC  
CACTGCTCCCAACAGCGTACGGATTAAGTTCATCAGGCTTCCATCGGCTGGAGCATGGGACCATAGCCCCTGCCC  
AGGAGCCGTACCCTCGGACCACAGTGGCTCTGTATGGCCAGGAAGTGGGACTCGAGCTTTCAGATTCTCAACTAG  
CCTTGGCAAAACAGCTGTAGGTGGCCTCCCTGACAACAGACACTCAGCCCTCCCCACCCTGGCTCTCCTTGCAAT  
TCCCCATGCTCCCCACCCCCTGGCAAAAGGCTGGCCATGCTCTGTTCCAGCAGCCGCGCAGGTTTCCCCACTGG  
CTGCAATGGCCCTACCAAAGCCATGTTGCATATCCGTTGTAAGCACGTGCCCTGTGCCCTGTCCCCATTCTTA  
TGCCCTAGGAGGCCAAGCTGGTGTCTCTAGGAGGGCCACACAGGCACCCTGGATCCCCCAGAGAGTAGATTGGT  
GTGCTCAGGCCGCGAGGCTGACTCAGAGGTAGGGCAGTGGGCTCTGCAGGCCACCTGGCTGGGGTTGGTGGGGGTC  
CTCTCTCCTGCCCCAGCTTCCACTCAGCCACCACAGTTGCCACACCATGGGGTGGAGACGTGGGTACCCACGGGC  
TTGGGAGCAAGCGCTTCTGCAGCACAGGAAGCCGAAGCTGGGGTCAAGGTGAGGTGCTACCCCTGGAGGTCTGG  
CATAAGGGCCCCACCCTCAGGTCTCCTACACTGGCCCCATTTTACTTTGGGGTCCAAGGACAGGATGGTCAACAG  
GGCAGGGTGGACAGCGTGCCAGCGCCGCGCAGGGCCACCTCCCTGGGTGGATGCATCACACTAAGGAAGTGAGTG  
CCAAGGGGATTTAGTGGTGTGGTTCTTTCAAAGGGAGGTCAAGGTCAATGGGAATCTGCTCGGACACTCAACATG  
GGGGTGGGTGCACTCCTTGAGGAGGAGGAACACGTTCAAGGGATTGTGAGGTCTTGACAAGCCACGTGGGGCA  
CCTTGGCTTCCCGGCAGGAGGTGGACACCCAGCCAGAGGCCTGGCTCAAGGTGACCTCACCTTACCATGGGCTT  
CCTGGGTGCGCGGGCCTGAGCGCAGGTTGTTTTGTACATATTGGAATATGTGTTAACTTATGCCCCGATCCCAA  
CTCACACGGAAGCACGGGTCTTGTCTCAGTCTCTTCGCTGCATTTGGAAAGCAGTCTCCTCTCGGGCCAGCGCG  
GGCTGAGGTGTCCAGAGGCGGCGGCGAGCTGGCAGTGCCCTCAGCCCCAAGTGTCCAGCCTGGCACTTCCCATTC  
AGGCCACCTGCTTTGGGTCAACAGTTCTTTTGGCAGCAGCATCTCTAAATTGTAAGGACTCTGTCCACCGGGGC  
CCTCCCAGGGCTGTGAGGACGGAAACAGGCAGGGAGTGGAGCTAACAGCTTAGTCACCAGGACCCCCAGACCTGC  
AAACGTCCCCTCCTGGAAGGGGAAGCCAGGAACAGCAGAAGTGCACAAAACAAGGCTGTGAACTTTTCGGGAA  
CTGGAACGTGTTAACTTGAACCCAGGATTGTTTAAAGCTTTATTTATTTATAGCTTCTTCTTAAAAAAAGTGTT  
GAAGAAATTTTTTGGTTATTATACAAAAAATGAGTTGATGATGGAAAAGCAAGTCATAATCATCTAATTGTTT  
TTGTCTAGGTGAGAAATGAATGTTAGCTGATGAAATAAACCTGACAAGG

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**FIGURE 863**

MLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNLKFIRPFMQYNSTRAGGV  
EVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADPEGRVPTED  
YMSHIIEKW

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**FIGURE 864**

GGAAAAAGCGACTTGTGGCGGTCGAGCGTGGCGCAGGCGAATCCTCGGCACTAAGCAAATATGGACCTCGCGGC  
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCCAGAACTGTT  
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAATACTTGCAATTAGCAGAGGAACTGATTGCG  
TCCTGAGAGAAACACATTGGTTGTGAGTTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA  
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTGCGGCCCTTGAACACATTTCGTCAAAGACCGTAAAGAGATCCC  
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCCTACCAGACACAAGATTTCGAGAGCTCACCTCATCCAG  
AATTGGTTTGCTCACTCGCATCAGTGGGCAGGTGGTGCGGACTCACCCAGTTTACCCAGAGCTTGTGAGCGGAAC  
TTTTCTGTGCTTGGACTGTGACAGATGATCAGGGATGTAGAACAGCAGTTCAAATACACACAGCCAAACATCTG  
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA  
GGTTCGTATTCAAGAGACCCAAGCTGAGCTTCTTCGAGGGAGTATCCCCCGCAGTTTAGAAGTAATTTAAGGGC  
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCTGACGTCTC  
CAAGCTTAGCACACCAGGAGCACGTGCAGAACTAATTCCTGTGTCAGTGGTGTGATGGATATGAGACAGAAGG  
CATTGAGGACTCCGGGCCCTTGGTGTAGGGACCTTTCTTATAGGCTGGTCTTTCTTGCTGCTGTGTTGCGCC  
AACCAACCAAGGTTTGGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAGAACCATAATGAC  
TGTGAAAGAATGGGAGAAAGTGTGTGAGATGAGTCAAGATAAAAATCTATACCACAATCTTTGTACCAGCCTGTT  
CCCTACTATACATGGCAATGATGAAGTAAACGGGGTGTCTGCTGATGCTCTTTGGTGGCGTTCCAAAGACAAC  
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTTGCATTGTTGGTGACCCAAGTACAGCTAAGAGCCAATT  
TCTCAAGCACGTGGAGGAGTTACAGCCCCAGAGCTGTCTACACCAGTGGTAAAGCGTCCAGTGCTGCTGGCTTAAC  
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTGATTGAGGCTGGAGCTTTGATGTTGGCTGATAATGG  
TGTGTGTTGTATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTTCATGAAGCTATGGAACAGCA  
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCCGACGTCCATTTTGGCAGCAGCAAAACC  
AATCAGTGGACACTATGACAGATCAAAATCATTGAAACAGAATATAAATTTGTCAGTCCCATCATGTCCCGATT  
CGATCTCTTCTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGGCGCATAGTAGATT  
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTTCTCTTTGCAAG  
ACAGTTTAAACCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAAACATCTCCGCCAGAGAGA  
TGGTTCTGGAGTGACCAAGTCTTCATGGAGGATTACAGTGCGACAGCTTGAGAGCATGATTTCGTCTCTCTGAAGC  
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTTCCGGTTACTGAATAAATC  
AATCATCCGTGTGGAAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC  
TGGTGGCATCAATGGTCATGCTGACAGCCCTGCTCCTGTGAACGGGATCAATGGCTACAATGAAGACATAAATCA  
AGAGTCTGCTCCCAAAGCCTCCTTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA  
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA  
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAAGAATCATAGAGAAAGTTATTCATCGACT  
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAAGTGAGAGCTA  
TGAAGAAGATCCCTACTTGGTAGTTAACCTAACTACTTGTCTGAAGATTGAGATAGTGAAAGTAAGTACCAGA  
GCTGAGGAAGTGTGGCAGACACCTCGTGGCCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTCTG  
AAGTGTGCTTCCAGGATTTGTTTTTCAGAAACAAGAATTGAGTTGATGGTCTTATGTGTCACATTATCACAGGT  
TTCATACCAACACAGGCTTCAGCACTTCCCTTTGGTGTGTTTCCCTGTCCAGTGAAGTTGGAACCAATAATGTGT  
AGTCTCTATAACCAATACCTTTGTTTTTCATGTGTAAGAAAAGGCCATTACTTTTAAGGTATGTGCTGTCTATT  
GAGCAAATAACTTTTTTTCAATTGCCAGCTACTGCTTTTATTTCATCAAAATAAAATAACTTGTCTG

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**FIGURE 865**

MDLAAAEPGAGSQHLEVRDEVAEKQCQLFLDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQL  
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE  
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLDITNKS RFVDFQKVRIQETQAE LPRGSIPRSLE  
VILRAEAVESAQAGDKCFTGT LIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA  
CCVAPTNPFRFGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTI HGNDDEVKRGVLLMLFGG  
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTS GKASSAAGLTA AVVRDEESHEFVIEAGALM  
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAQVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAP  
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH  
LRQRDGS GVTKSSWRITVRQLES MIRLSEAMARMHCCDEVQPKHVKEAFRLLNKSIIRVETPDVNL DQEEEIQME  
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASLR LGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN  
WYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNP NYLLED

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**FIGURE 866**

CCGGGATCTCGAGATAGCCGAGCTCTCGCGATCTTTCTGGAGCCGCACCTCCACGCGGAGTCCGAGCGCGTGTG  
CTGAGACCCAGGGTCGGGAGGGCGGAGACTGGGAGGGAGGGAGAAGCCCCCTTTGGCCTGCCTTACGGAAGCCTG  
CGAGGGAGGGTGGTGTCCACTGCCCAGTTCCGTGTCCCGATGCCAGCGCCAGCGCCAGCCGCAAGAGTCAGGAG  
AAGCCGCGGGAGATCATGGACGCGGCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCA  
CAAGAAAAACCAGATCGAGTTTTGGTTCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTA  
CGTGCAAGAGTTCATACAAGCAGAGCTAAAGGGAAACAGTGCTTCTTAGTCCTACGTCAGCAGCAGTTTAATGTC  
CAGGCTCTTGTGGCGGTGGGAGACCATGCAAGCAAGCAGATGGTTAAATTTGCTGCCAACATCAACAAAGAGAGC  
ATTGTGGATGTAGAAGGTGTTGTGAGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTA  
CATGTTCAAGATTTATGTGATCAGTTTGGCTGAACCCCGTCTGCCCCCTGCAGCTGGATGATGCTGTTCCGGCCT  
GAGGCAGAAGGAGAAGAGGAAGGAAAGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTT  
AGGACATCAACTAGTCAGGCAGTCTTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAACTTTAATTAAC  
AAAGGTTTTGTGGAATCCAACTCCTAAAATTATTTAGCTGCCAGTGAAGGAGGAGCCAATGTTTTTACTGTG  
TCATATTTTAAAAATAATGCATACCTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTT  
GAGAAGGTTTTCTCTATTGGACCAGTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAACTGAGTTTGTT  
GGTTTGGACATTGAAATGGCTTTTAATTACCATTACCACGAAGTTATGGAAGAAATTGCTGACACCATGGTACAA  
ATATTCAAAGGACTTCAAGAAAGGTTTCAGACTGAAATTCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTC  
AAATTTTTGGAGCCAACCTCTAAGACTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATG  
GGAGATGAAGACGATCTGAGCACACCAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTATGATACAGAT  
TTTTATATTCCTTGATAAATATCCATTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAG  
TCCAACCTCTTACGATATGTTTCATGAGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTG  
CTAACAGAGAGAGCTTTACATCATGGAATTGATTTGGAGAAAATTAAGGCTTACATTGATTCCTTCCGCTTTGGA  
GCCCCCTCCTCATGCTGGTGGAGGCATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTTCGT  
CAGACCCTCATGTTCCCTCGTGATCCCAAACGACTCACTCCTTAAATTCACACTTTGCCACTTAACTCCAGTGTG  
GATGACAGAGCGGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAGAAAGCCACACTTATTCTTTTCAGTAACCTGC  
TAGTGACAGGCTGTACTTTAGGTACTTAAAATATGCACTAGATAAATTTGCAAGGCCCTAAAATATCACTGTT  
ATTTTTGGAGTAATTCAGTATAGGTTTCGTTTAAAAGAGATTTTTATAACTTCAGACATGCATCAGTAGGAAATAA  
CTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACGTTAAGAGTTTTAAACAGTT  
AAGATTGTACAATTTTTCTTCTTTTCTATATTACAAGGGCCCCAGTGTTAATGTCTTAGATTTTCAGTATTTGAA  
CTTATTTTTTTAAATTCGTGATTGAGATAAGAATAATTCAGGTAGCATCTGAAATTTAATGAATGTATAATTG  
GCATATCATGGAATAATTAACCAGAAAGTATCAGTTCTTAAAAGTTATGCCTAGAAATTATGTAAAGCTAAACTAC  
TGGTTAGAAAGTATTCAGTGTAATATTGTATTAATTTGTTAAATTCTAAACTTGAATTTCAATAAAATTTTAAAG  
CT

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**FIGURE 867**

ATGACAAAGAAAAATGCCTGCATGGGCCTTGTTTTCCAGATTCAATCAAGGCTCAAAGCTTTTATCTTGTTCTTA  
ATAGCACCTTGACCCGATAGAGCCCCGCAAGGCTTTGCGGGCCTTAATTATTTCCCAAGATCGATGAGACCCCT  
CAGCCCCCTGGGCAGCAGCATCCACGGCAGTTTTCCAGATGGATGAGCTGCGTCGAAAGCTGCAGAGCAGACAG  
GGATGCAGACAAGGTCCAGCACGCCCAGCAGAGCCTGCGGCCTGCGGGTTCCCTCGGGCGGATGGCACTGCAAAAT  
TCAGCCCTTAATTCAATCAATATGTGCCTTCGAGGAGTTTATAGTCATGGTTTGGTATGGTTGGTATGTGATGCA  
CACAAAGCAGAGACAGCTGCATGTAGAAGGGCAGGGGAGCATGGAGGCCCCAGTACAGCCAGGAGGCCCCCTGGAG  
CTTCAGGCAGCAGGACATGGGTCTGGATCTGTAGTCAGAGGGGAGGTCAGGAAAGAGCTTGTACACCAGCAAAAG  
ATTGGATCCTGTGGTTCTCAAACCCTTATTAGTCCTGGAGCTGTGTTTCAAGGAAATTCTGCAGAAGAACAGCAG  
TTCCCTTGCAAGGATGACCCCAGGGCCCCCTGGTTCCCAGCAGCTCCAAGATGAGATGGCAGAAAGGGAGAGGGGG  
AACCAAGGAGAGGGAAGGAGGAAATATATTAGTGAGCTGCCCCAACGTCCCTCAAGGACAAGCACAAAGGGGT  
GGTGTGGACAAGCATAATGCAATTGGCCCAGGGACAGGCCATAGACCCCACTTCCAAACCCCATTTCTCCTCACA  
GCCCAGGGCCTGAAGGGAACCCGCTGGATGCAAAGCCGAGGTACCCAGAGATGGAGGTGGACAGACAGTGTGGG  
ATGGCCCTGCACCCCTGAAACTCCCAGGCACTACCTTGCAATTGTGAGTTTCTAATTTACACACACTGGGGAGAGG  
TCTGCTGTGGGGCAGGCTGGCCACCAGCGCTGGGTAAGTAGGGACTGGCCTAGCCACAGGCCTCAAGGATGCCGA  
AGTCTGGTGGGGGAGACAAGCATGGAGAGAGACAGAGATGGCAGAGGCCAGGACAGGAAGCCTCTGGGCATCCTG  
GCTGAGGACAGGCTGGCACACCCAGAGGAGAGTGAATCGTGGAAATGCCGAAAGCTAAAGAGAAGATTCCACCA  
GAGATCACAGAGCAGAACATGCAAAAGTATAAAATTGCCCAACCACCGTCACTCACGGACCCCTTTGTCCCTTC  
TCTTCCCCCTCCACCCCATAGAAGTTTGGCTGACAACCACGGGTTCTATACCACATTTCCACATATGGGAAGAATCT  
GTGGCCCAGAGTGGTTACATTAGAGCACCTCCTCCCCCTGAGAGCCACACAAGGGCCCATAACACCTTCCAGTTCA  
TGGCTCCACCTTTGTCTGCTCTCACAACCTTCCCAGACCTGGCCTATACCCACATGTTATTAAATAATCTTCTA  
GATATGCCTTTAGGATTTGCTGCAAAGACACTTGAGATAAAGTATCTGTGAGAACCAACCTGGGATGTAGCCAAA  
GCTAAGGAATATGTCTGTTCTGTGGAGAGCAGATGATCAATAGGTGGTTCCAGCTAATGGAGTGAAGTGGAGCA  
AGGCTCATAGGCCTTTTCAAGTCCATCAAAGGAAGATAAGTCCCCACTCATTGTCCCTGGAGGAACTGTGAGGTC  
TTCTTATATTTGCATGTATGTGCCAAAGAGAGACATGTAAAAACCAGAGCCCGGAGACATAGAGAAGATCATTCA  
AAAGCACATGCCAAGCTAAAGACAATACCAGGGACAGGACCTCATCTTCTGACTCTTGGTCCAGTTCTCCCTCCA  
ACTCAGCAAACAGCCTTTGGATTCCACTTGGGAAATATGGAACTGAACAGCCAGAAGAAACCTTCCCTAACACT  
GAAACCAGTGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTATAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACCCATTCTGCTTCAGAGCAAGAATGCTGGAGCAGTGAAGTGGAAAAGGAGGCAAG  
AATATTAAGGCTCTCCATACAGACTACAACGCCAGCATTTCAGTTCTAGACAGCAGTGGCCCCCAGCATATATTG  
CATATCAGTGTGATATCGAAACAATTGGAGAAATTCTGAAGAAAATCATCACTACCTTGGAAGAGGGCCCGCAG  
TTGCCATCACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATACTTAAATTACCAACAATAT  
AAAGGAAGGGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGAATGT  
TGTCTCATTTTCACTGATAGAGTTGTTCTTATTGGAGGAAAACCCAATAGGGTTGTAGAGTGCATAAAGATCATC  
CTTGATCTTATTTCTGAGTCTCCCATCAAAGGACATGCACAGCCTTATGATCCCAATTTTTACGATGAAACCTAT  
GATTATGGTGGTTTTACAATGGTGGTTTGTGACGACCGTGGACGCCCAGGGGGAGACCTCATGACCTATAACAGA  
AAAGGGAGACCTGGAACCGTTACGACGGCGTGGTTGATTTTCAAGTGTGATGAAACTTGGGGCTCTGCAATAGAT  
ACATGGAACGCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCAGATATGATTATTCTATGCAGGG  
TGTCATGGCTCATATGGTGTCTTGGTGGACCTATTATTACTACACAAGGAGCTTTGATCAAAATTGATGAGCCT  
TTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCCG  
CAGAATAGTGTGAAGCAGTATTCTGGAAGTTTTTCTAA

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**FIGURE 868**

MTKKNACMGLVFIQISRLKAFILFLIAPCTDRARQGFAGLNYFPKIDETPPPGQQHPTAVFQMDLRRKLQSRQ  
GCRQGPAPPAEPAACGFLGRMALQNSALNSINMCLRGVYSHGLVWLVCDAHKAETAACRRAGEHGGPSTARRPLE  
LQAAGHSGSGSVVRGEVRKELVHQKIGSCGSQTILISPGAVFQGNSAEEQQFPCKDDPRAPGSQQQLQDEMAERERG  
NQGEGRRKYIQCSCPNNVPQQAQRGGVDKHNAIGPGTGHRPHFQTPFLLTAQGLKGTRWMQSRGHPHEMEVDRQCG  
MALHPETPRHYLALSVSNFTHTGERSAVGQAGHQRWVSRDWP SHRPQGCRSLVGETSMERDRDGRGQDRKPLGIL  
AEDRVAHPEESESWKCRKLKRRFPPEITEQNMQKYKIAQPPSLTDPFVFPSSPPPHRSLADNHGFIPHFHIWEES  
VAQSGYIRAPPPLRATQGFIPSSSWLHLCPALTTFPDLAYTHMLLNNLLDMPLGFAAKTLEIKYLSEPTWDVAK  
AKEYVLFCEQMINRWFPANGVTGARLIGLSVPSKEDKSPLIVPGGNCEVFLYLHVCAKERHVKTRARRHREDHS  
KAHAKLKTIPGTGPHLLTLGPVLPPTQQTAFGFHLGNMETEQPEETFPNTETSGEFGKRP AEDMEEQAFKRSRN  
TDEMVELPILLQSKNAGAVTGKGGKNIKALHTDYNASISVLDSSGPQHILHISADIETIGEILKKIITTEEGPQ  
LPSP TATSQ LPLESDAVEYLNYYQYKGRDFDCELRLLIHQSLAGGIIGECPPHFTDRVVLIGGKPNRVVECIKI  
LDLISESPIKGHAQPYDPNFYDETYDYGFTMV FADDRGRPGGDLMTYNRKGRPGNRYDGVVDFSADETWGS  
AID  
TWNASEWQ MAYEPQGGSRDYDYSYAGCHGSYGD LGGP IITTOGALIKIDEPLEGSEDRIITITGTQDQIQNAQYLP  
QNSVKQYSGKFF



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**FIGURE 869**

ATGAAGCAGTTAATTACCCCTGCTAAACAGCAGGAAGCATTGAGCAAAAACCTCTGCTCACCTTCCTCAATCAGA  
GGACATTTCTGCTCATCAGTCAAGCAGGCAGACCACAGGACTCTCAGACAAAGGCTGAGAGGTAGACTGATGAGG  
AGGAGACTGTCAGTGAGCACAAAGGCCTTAAGATTAGCGACTGAAGGCTCCTGGAATGAGTATGTGGTTAGAGAC  
TGGAACTACTCAGGAGTTTCCCTAGGTCTGCTCCAAATAGCACAAAGCAATGGATGATGAAGGATCCATGTTAATA  
GCAGTGGATCCACAGTGCAGATTTTCAGGTGATCTGCTCCCTACGACTCACTAATTGGAGTCCCATTGGCCCCC  
CATGTGACCCTCTTGGATAAAAAATCAAAATGGCTCTCGTCTTGTTTGTTTCTCCTGTTTGCCCCCAGTCAGGGCT  
GGCACAGAGTGGCAGCTCTCTGCTCTCCACAGGGCTCCCGCTCCACCCAGCCCGATAAAGCATGCCGACTGGGC  
TACAAAGCCAAGCAAGGTTACATTATATATAGGATTTGTGTTGCGCGTGAGGAGCAAGCTGGACACCACTGTGGG  
GCTCTAAGAGTCCTGAATTCGTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT  
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAAATG  
CGTGGGCTGACATCTGCAGGCTTGA

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**FIGURE 870**

MKQLITPAKQQEAFEQKLCSPSSIRGHFCSSVKQADHRTLRLRGRLMRRRLSVSTKALRLATEGSWNEYVVRD  
WNYSGLVSLGLLQIAQAMDEGSMLIAVDPQCRFSGDLLPYDSLIGVPLAPHVTLLDKNQNGSRLVCFSCLPVRA  
GTEWQLSALHRAPRSTQPDKACRLGYKAKQGYIIYRICVRREEQAGHHCGALRVLSYWVGEDSTYKFFEVLID  
PFHKAIRRNPDQTQWITKPVHKKHREMRGLTSAG

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**FIGURE 871**

ATGTGGGGCGACCTCTGGCTCCTCCCGCCTGCCTCTGCCAATCCGGGCACTGGGACAGAGGCTGAGTTTGAGAAA  
GCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTTCATCTATGGCCACTACAAA  
CAAGCAACTGTGGGCGACATAAATACAGAACGGCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTGGGATGCC  
TGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAGAGCTAAAGAAA  
AAATACGGGATATTGAGAGACTGGATTTGGTTACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTT  
TTTCTAATACCGTGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACTCAAGGCTGCTCACCATACG  
GCTCTAACAGATTAGGGGCTAAAACGATTACTGACTTTCCTTGAGTAGTTTTTATCTGAAATCAATTAAAAGTGT  
ATTTGTTACTTT

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**FIGURE 872**

MWGDWLWLLPPASANPGTGTEAEFEKAAEEVRHLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDA  
WNELKGTSKEDAMKAYINKVEELKKKYGI

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**FIGURE 873**

GTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGTAGAGGCAATGAATTACAAAGGCAGTCCAATTA  
AAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAAAGGATTCCCTTGGAGGCTTTGAAATCACACCACCAG  
TGGTCTTACGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATG  
CAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTGTATCTGGAAAGCGGTCGGCCCCGTGGAGGTG  
GTAGCAAGATTCCACAGAAAAAAGTAAAAAGTTGCTGCTGATGAAGATGAAGATGATGATGATGAGGATTTTGATG  
ATGGGGAAGCTGAAGAAAAAGCGCCGGTGAAGAAATCCATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAA  
ATCAGAATGGAAGAACTCAAAACCGTCAACACCAAGATCAAAAGGACAAGACTCCTTCAAAAAACAGGAAAAA  
ACTTCTAAACACCGAAAGGACCTAGTTCCATAGAAGACATTAAAGCGAAAATGCAAGCAAGTATAGAAAAAGCG  
CATTGAACAGTCCTGGGCACTGCTGGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAG  
TCCATACTGAG

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**FIGURE 874**

MNYKGSPKVTLATLKM SVQPKDSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDA ESEDEEEEDVKLLSVS  
GKRSARGGGSKIPQKKVKVADEDEDDDDDEDFDDGEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQ  
DSFKKTGKNF

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**FIGURE 875**

AGCGGGTTTGC GGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGC  
CAATCCTGTGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC  
AGCGAAAAAACAAGAACAACCTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC  
AGATCTTTTCATATTTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA  
GCAAAGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC  
TGTTTGGTGAAAGACTCTTGAGGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGCTCTTTAAAGACTGGA  
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC  
GGATGGAGGAGCGATTTAAAAAGAAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAGGAATTGACTATGATT  
TTCCTTCTTTGATTTTACAGAAAACGGAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTT  
TACGTAAGAAGAAGAAAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC  
CAGTTTGTACACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATG  
AAATAGTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA  
AAAAAGACGAAGAAGCAGCAATCAGTGATTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGA  
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT  
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT  
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTTGGCTCTAGTTTTCTTTTGATATTTCATAGCTCTCCTTAGT  
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAACTACTAACTGCAGCCTTTTCTGTGCGCCAGC  
AATTAAAGACCACCAATCTTGTGTTGTCCATCTACATGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA  
TTTCAACATCAGATGGTTGAAGCTGGAAGTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGA  
TTTGTGTTATGTGTTTCAATAGAGATTCAAAAATGACTCATTTTTTACCAATAATGTTAAATTAGTTTTGG  
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC  
AATAACCAGCAATTAACTTTTTTCTACAATGTATTTGTTTGCAGTAGGACTTGGGAGTCATTGGAAAAAATA  
ATAATAAATTTTCCCCTTCATTAACAAAAA

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**FIGURE 876**

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR  
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDOWNIPFKQPSYQSVKRYN  
RNRTLQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPE  
KTVD SQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTP THSRKKRRRSSNQ



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**FIGURE 877**

CCGCGGCGTCCACACTCGCCGCGCGCGCGGCGGCCGGGCTGGACCTTGCTGGCCCGCGGCGCCATGAGCCGCAGC  
CTGGACTCGGCGCGGAGCTTCCTGGAGCGGCTGGAAGCGCGGGGCGGCCGGGAGGGGGCAGTCTCGCCGGCGAG  
TTCAGCGACATCCAGGCCTGCTCGGCCGCTGGAAGGCTGACGGCGTGTGCTCCACCGTGGCCGCGAGTCGGCCA  
GAGAACGTGAGGAAGAACCCTACAAAGACGTGCTGCCTTATGATCAGACGCGAGTAATCCTCTCCCTGCTCCAG  
GAAGAGGGACACAGCGACTACATTAATGGCAACTTCATCCGGGGCGTGGATGGAAGCCTGGCCTACATTGCCACG  
CAAGGACCCCTTGCTCACACCCTGCTAGACTTCTGGAGACTGGTCTGGGAGTTTGGGGTCAAGGTGATCCTGATG  
GCCTGTGAGAGATAGAGAATGGGCGGAAAAGGTGTGAGCGGTACTGGGCCAGGAGCAGGAGCCACTGCAGACT  
GGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCCTCAAGGTCACA  
TTCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGTCTGGCCAGACCGTGGGGTCCCCAGCAGTCTCT  
GACCACATGCTCGCCATGGTGGAGGAAGCCCGTTCGCTCCAGGGATCTGGCCCTGAACCCCTCTGTGTCCACTGC  
AGTGCGGGTTGTGGGCGAACAGGCGTCTGTGCACCGTGGATTATGTGAGGCAGCTGCTCCTGACCCAGATGATC  
CCACCTGACTTCAGTCTCTTTGATGTGGTCTTAAGATGAGGAAGCAGCGGCCTGCGGCCGTGCAGACAGAGGAG  
CAGTACAGGTTCTGTACCACACGGTGGCTCAGATGTTCTGCTCCACACTCCAGAATGCCAGCCCCCACTACCAG  
AACATCAAAGAGAATTGTGCCCCACTCTACGACGATGCCCTCTTCTCCGGACTCCCCAGGCACTTCTCGCCATA  
CCCCGCCCACCAGGAGGGGTCTCTCAGGAGCATCTCTGTGCCGGGTCCCCGGGCCACGCCATGGCTGACACCTAC  
GCGGTGGTGCAGAAGCGCGGGGCTCCAGCGGGCGCCGGGAGTGGGACGCAGACGGGGACGGGGACGGGGACGGGG  
GCGCGCAGCGCGGAGGAGGCGCCGCTCTACAGCAAGGTGACGCCGCGCGCCAGCGACCCGGGGCGCACGCGGAG  
GACGCGAGGGGGACGCTGCCTGGCCGCGTTCTCTGCTGACCAAAGTCTTGCCTGATCTGGCGCCTACGAGGACGTG  
GCGGGTGGAGCTCAGACCGGTGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCGAAGGGTCCCCGGGACCCGCT  
GCTGAGTGGACCCGGGTGTAAGTCTAACGCCAGTTCTGCTGCTTGTGCTCTTGTGAGCTCGGACTGCTGATGCC  
CGGTGCTGCTGAGCGCCGTGCGCAGAATGGAAACAGTGGGCTGGATCAAAGTTAAAGTTTCTCAGGGTGGGAAA  
TGTGGGGGCTTTGCCCAATGACTGTAGCATTCAAGGCTTGAGGCTGGAGGAGGTAGCTAGGGTATAGTGGCTGG  
TGAGGCTGCACAGAGCAGATTCAAGAAAGAAGATCAGGAAGGGGCATGACCCCTGAGTTATGAAGGGGAGAAGGG  
ACAGATGAGCTTCCGGAGACTGCTCTCCTCACACACAGCACTAGTCCATCCTCAGCACCTGAGCCTCCCTCACT  
TGGACACTCAGGGGACCACACAGAGAAGTGGATGGACACTTCGCCATCCAGGCAGAACTAAGCCAGGCATAACCA  
CAGCCAAGCAGATTAACCCAGGCAGACCGATAAAAAGACCTCCAGATAGGCAGACAGACAGATGGACCACCAAC  
CTGGACAGACAGCCAAAGCTTCAGAGATACAGTCCACAGGTGGACAAAGGGATCCCCAGCCAGAGAGAGAGAGAC  
CAGCCAACAGCTTGATAGACAGTGCAGCCAGAGAGACCACCAAACAGAGCCCCCAAAGACAGACATCTCTGCT  
AGCTGGACAGCCAGGTGGACCCCTAAGTTAGATTACTAGACAGATATAAACAGATCCCCTGCTGAACAGATACA  
CAGAGTTCTCAGACCCCAACCCCAACCTCAGGTGGGCTGGCTGGCTGACAGACCTTCTGGCCAGACAGACTCCTA  
ACCAACCAGATGGACTGCCAGACAGGCAGACATCAGCCACATGGAATCCTGACATCCCAGCCAGCCGGCCAGACT  
CTCATCTTGATGTCTTGATGGATGGACCCAGCTAGTCAGACATGATCCTCCAGATTGACAGACAAGTCCCCAA  
ATGAGTACACATCTCCAGCTATTAGACAGATGGACCCCAAGCAATCAGGACCTATCTAGGCAGACCCCAAGCCA  
GACCCCGCCAGACAGACTCCCAACCAGACTGACCCCTTACTATTACACAGCCTGCCGAGTAGCTGGGACTACA  
GGTCTAATTTTTTTTTTTTTTAAGAAATGAGTTTTTGCCATGTTGCCAGACTGGTCTTGAACCTCCAACCTCAA  
GCAATCCTCCTGCCTCAGCCTCCCAAGTGTGAGATTACAGGTGTGAGCCACCAGGCTCAGCCCCCTAAGATTT  
GAAACACTTTAAATGGCCCATGGTAGGGTTCTGCTAGGATAAAACATTAAAGCGGCTGTTAAAAGAAATAAAAGG  
AGGACACGTCTCTGTGC

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**FIGURE 878**

TGGAAGCGGCACTCAAGATGCTGCGCCGCGAGGCCCGCCTGCGCCGCGAGTACCTGTACCGCAAGGCCCGGGAGG  
AGGCGCAGCGCTCAGCCCAGGAGAGGAAGGAGCGGCTGCGGCGCGCGCTGGAAGAAAACCGCCTGATTCCCCTG  
AGTTACGCCGAGAGGCTCTGGCCTTACAGGGGTCCCTGGAGTTTGATGATGCTGGAGGTGAAGGTGTGACCAGCC  
ACGTGGATGATGAATACCGATGGGCAGGAGTCGAGGATCCCAAGGTTATGATCACTACCTCCCAGACCCCAGTT  
CCCGCCTCAAGATGTTTGCAAAGGAGCTGAAGCTGGTGTTCCTGGGCGCCAGCGAATGAACCGAGGTGACATG  
AAGTGGGGGCACTGGTGGGAGCCTGCAAAGCCAACGGCGTCACCGATCTGCTGGTCGTTACGAGCATCGGGGCA  
CACCTGTGGGGCTCATCGTCAGCCACCTGCCCTTTGGTCTACTGCCTACTTCACGCTGTGCAATGTGGTCATGC  
GGCATGACATCCCAGACCTGGGCACCATGTGCGAGGCCAAGCCCCACCTCATCACACACGGCTTCTCCTCCCGCC  
TGGGCAAGCGGGTCTCTGACATCCTCCGATACCTATTTCCCGTGCCCAAAGATGACAGCCACCGGGTCATCACCT  
TCGCAAACCAGGACGACTACATATCATTCCGGCACCATGTGTATAAGAAGACAGACCACCGCAACGTGGAGCTCA  
CTGAGGTGCGGCCCCGCTTTGAGCTGAAGCTGTACATGATCCGTCTGGGCACGCTGGAGCAGGAGGCCACAGCAG  
ACGTGGAGTGGCGCTGGCACCCCTTACACCAATACCGCACGCAAGAGAGTCTTCCTGAGCACCGAGTGAGCACACT  
CACCACTCAGTCAGGACATGGACTTGGAATCAGGATGGGGCTGTCATAGACAGACCCACCAGTAGGAACTGTCA  
CAGAAATGGCCTGCTGAACTGGGATGTGGAATGTGGCGGGTGGAGAGGTCTGAATAAACCGTCTGTGTCATGGCA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 879**

MLRREARLRREYLYRKAREEAQRSAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGVTSHVDDEY  
RWAGVEDPKVMITTSRDPSSRLKMFANELKLVFPGAQRMNRGRHEVGALVRACKANGVTDLLVVHEHRGTPVGLI  
VSHLPFGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRVSDILRYLFPVPKDDSHRVITFANQDD  
YISFRHHVYKKTDRNVELTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTNNTARKRVFLSTE

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**FIGURE 880**

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGACGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCTCTG  
CCAGAGACCATGGGGAACGTGTTGGCCGCCAGGTGCGCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTC  
GTGGAGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCCGCGCTGGGAGGCGGCCTGGGCGCCGGC  
ACCAGTACGAGTCGAGGTTGGAAGTACCCCCGGGGCTGCAACTGCCAGCGCCTCAGGGGCGCCGAGGATGGG  
GCCTGCGGCTGCCTGCCCCAACCCGGGCACATTGCGGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTTCAG  
ATGGAGGGTGTCAAGCTCATAGTCAACAAAGGGTTGAGTAACCATTTCCAGGTGAACCACACAGTAGCCCTCAGC  
ACAATCAGGGAGTCCAGCTACCACTTCGGGGTCACGTATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC  
CTTGTATTGGTGGGTGACATGGACAACAGCGGCAGTCTCAACGCTCAGGTCATTACACAGCTGGGCCCCCGCCTC  
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT  
GACTCACAGCAGCCGTAACCCTGGGGAAACCCAGACGTCCTCGTGGGTTTCAGGAATCCTCGTAGCCCACTACCTC  
CAGAGCATCACGCCTTGCCCTGGCCCTGGGCAGAATGCTGGTCTACCAACAGCAGCCTGGGGAGGAGGGCACTGTC  
ATGTCTCTAGCTGGGAAATACACATTGAACAAGTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA  
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC  
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAAAGGCTCTGTGGATAGCAACTGGATCGTGTGTGCC  
ACGTGGAGAAGAAGCTCCCGCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC

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**FIGURE 881**

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGGAGAGATTCTGGGAGCCAAACACTCCATTG  
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG  
CATTGCCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG  
GCACCTTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA  
TGAAAATGCCATCTATTTCTTGGGAAATTCTCTTGGCCTTCAACC AAAAATGGTTAAAACATATCTTGAAGAAGA  
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGATTACAGGAGATGAGAG  
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA  
TTTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAAATTCTTCTAGAAGCCAAAGCCTT  
CCCTTCTGATCATTATGCTATTGAGTCACAACTACAACCTTCACGGACTTAACATTGAAGAAAGTATGCGGATGAT  
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT  
TGCAGTGATCCTGTTTCACTGGGGTGCAATTTTACACTGGACAGCACTTTAATATTCTTGCCATCACAAAAGCTGG  
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG  
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCTTCAT  
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA  
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG  
TTCCTTGCTAGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC  
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT  
AATTACTCCGTCTCATGTAGAGGAGCGGGGGTGCCAGCTAACATAACATTTTCTGTTCCAAACAAAGATGTTTT  
CCAAGAAGTAGAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTGAGTGGCTCCAGTTCCCTCT  
CTATAATTCTTTCCATGATGTTTATAAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAAA  
TTAGCAGTGTTTTCTAGAACAACCTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTTCACTATTATTTCGATTT  
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAAC TAACAATAAATAATATACCTTAC

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**FIGURE 882**

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS  
LGLQPKMVKTYLEEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANKEIAlMNALTvNLHLLMLSFFK  
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF  
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP  
ALVGWFGHELSTRFKMDNKLQLIPGVCGFRISNPPILLVCSLHASLEIFKQATMKALRKKSvLLTGYLEYLIKHN  
YGKDKAATKKPVVNIITPSHVEERGCLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNsFHDVYKF  
TNLLTSILDSAETKN

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**FIGURE 883**

GTGTACGGTCCGCAGCGGCAGGTGAAGTCTAGCAGAGGACGCGGCCAGGCGATTTCGGTGAAGCGATTTCCTGCAGG  
CGTTGGTTCCCTCTTTGACCTGGTAAATGCAGGCTTTTATGCGAGAGGATTTGAATTTGTTGAAATGAGCAGTC  
GTAAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTTTACGTGAAAGATTTT  
GTCGTGAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTTAAGTGAGCTGCTGAAAAGAA  
CTGCTCTCCATGGAGAGAGTAACCTCTGTCCTTATTATCGGACCCCGAGGATCAGGAAAACTATGTTAATAAATC  
ATGCTTTGAAAGAACTCATGGAAATAGAAGAAGTGAGTGAAAAATGTATTACAAGTTCACTTAAATGGACTGCTGC  
AGATCAATGACAAAATCGCCCTAAAGGAAATCACAAGGCAGTTAAATCTGGAAAATGTAGTTGGAGATAAAGTTT  
TTGGAAGCTTTGCTGAAAACCTTTCATTTCTTCTGGAAGCTTTAAAAAAGGTGACCGAACTAGCAGTTGCCAG  
TGATCTTCATATTAGATGAATTTGATCTTTTTGCTCATCATAAAAACCAAACACTTCTCTATAATCTTTTTGACA  
TTTCTCAGTCTGCACAGACCCCAATAGCAGTTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAA  
AAAGAGTGAAGTCAAGATTTTCTCACCGGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAA  
TATTTAAAGAACAGTTATCTCTACCTGCAGAGTTTCCAGACAAGGTTTTTGCTGAGAAGTGGAATGAAAATGTTT  
AGTATCTCTCAGAAGATAGAAGTGTCGAAGAAGTACTACAGAAGCATTTCAATATCAGCAAAAACCTGCGGTCAT  
TACACATGCTATTGATGCTTGCTTTAAATCGAGTAACAGCATCGCACCCATTTATGACTGCCGTAGATCTAATGG  
AAGCAAGCCAACCTGTGTAGCATGGACTCGAAAGCAAAATATTGTACATGGTCTATCAGTCTTGGAATCTGTCTTA  
TAATAGCAATGAAACATTTAAATGACATCTATGAGGAAGAGCCATTTAATTTCAAATGGTCTATAATGAGTTTC  
AGAAGTTTGTTCAAAGGAAAGCACATTCGGTTTATAATTTTGAAAAACCTGTTGTCATGAAGGCTTTTGAACACT  
TGCAGCAATTAGAATTAATAAAGCCCATGGAAAGAACTTCAGGAAATTCACAGAGAGAGTACCAGCTGATGAAAC  
TGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAACTGTCCTACAGATGTGAGGCAGTGCG  
CAACATCCTCACTAAGCTGGTTATGAATATAACCAGTGACTTCAACTTTGGCATTTCATTTCATCTTCTGTAGAG  
AACGGAACCTATTGTCCATTAACATGATATGCTAAACATTCTATAAACATTCTTGTATTTATGTGAGACTTGCC  
CATCTACTGTCTTGGCTGTGTCTTGCCTTTTAAATCATGAACAGTTACATGATTTATAATTTCACTGATTGAGATT  
ACTTTGTAAGTAGCTGTTTCAGAAGAATAAAATATGACTGTTTTAGGGACTAGACCATGTGCTTTTTTAACACTTA  
TATATATAATGGTCTATTTGAAGAGCTCACTTCAACCTAACAGCTAGATGTCTTTACAAACCTTAAACCAAAGGA  
GTAAAAAAAACAATGGTAAGCACTGAAGTATAATAAGTAACCTTTGGTACAGCAGGTTTGCTGCAGTGTTTTTT  
CTGTCCACATGCAAATTTTGGATTCTATCCCAGACCCAGGTTTTCTAGTTCAGAAGACTAACCAGCTTAGTCAGA  
AGATGGTTCCATGGAAGAAAAAGGCAAGGAGTTTGAAGATTTTCTTCTAGACATCTCAAAATGTGGTACTCAT  
ACCATCCACATCAGAATCCCTTGTAGGATTTCTAAAATTACAGATTGTTGAGCCTACCATAGGTCAAAAGGACT  
GGAATTTTCTTCTTAACAAGTATAGTCATGGCACCACGTAACATTTTGGTCAATGACATTGTATAAAGGGTGGT  
CTCATAAGATTATACCATATTTTTACTGTACCTTTTCTATGTCTAAATATACAAATGTTTTACCATTG

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**FIGURE 884**

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQVQVQYKHLSELLKRTALHGESNSVLIIGPRGSGKTM  
LINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDQVFGSFAENLSFLEALKKGDRS  
SCPVIFILDEFDLFAHHKNQTLNLYNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRSFHRQIHLMNSFGFPQ  
YVKIFKEQLSLPAEFDPKVFQAEKWNENVQYLSSEDRSVQEVLOKHFNISKNLRSLSHMLLMALNRVTASHPFMTAV  
DLMEASQLCSMDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPFNFMVYNEFQKFVQRKAHSVYNFEKPVVMKA  
FEHLQQLELIKPMERTSGNSQREYQIMKLLLDNTQIMNALQKYPNCPTDVRQWATSSLSWL



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**FIGURE 885**

ATTCCGGCACCGCAGCGTAGGTGCTACCACCGCTGCCGTCGCCGCCGCCATTTTGATGGCAGGAAGAGTCCGGTTC  
TGGGACAGCTGGAGACAGTGGTGGTGACTGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCC  
AGCGGAGATCGGCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCTATCTCCCAGGATTTTGCTCTTTAGTTAA  
AAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTTCGGATGAGTCTCATGTGGCTGCTGCACC  
TCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAACTATGGGACCCTTTGGACCTCAAGATCAGAGGTTCCA  
GCTTCCTGGGAACATAGGTTTTGATTGTCACCTCAATGGGACTGCTTCACAGAAGAAAAGCCTGGTTCATAAAAC  
TTTGCCTGATGTTCTAGCAGAACCTTTATCAAGTGAAAGACATGAGTTTGTGATGGCACAATATGTGAATGAATT  
TCAGGGTAATGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAACTTACTTTGAAAGTGCCAGAGTAGAGTG  
TGCAATACAAACATGTCCAGAATTGCTGCGAAAAGATTTTGAATCACTGTTTCCAGAAGTAGCTAATGGCAAAC  
AATGATTCTGACTGTAACACAAAAAATAAGAATGATATGACTGTTTGGAGTGAAGAAGTAGAAATTGAAAGAGA  
AGTGCTCTTAGAAAAGTTTCATCAATGGTGCTAAGGAAATTTGCTATGCTCTTCGAGCTGAGGGTTATTGGGCTGA  
CTTTATTGACCCATCATCTGGTTTGGCATTTTTTTGGACCATATACAAACAACACTCTTTTTGAAACTGATGAACG  
CTACCGACATTTAGGATTCTCTGTTGATGACCTTGGATGCTGTAAAGTGATTTCGTCATAGTCTCTGGGGTACCCA  
TGTAGTTGTAGGGAGTATCTTCACTAATGCAACACCAGACAGCCATATTATGAAGAAATTAAGTGGAATTAGCA  
GAAATATCCATTCATTTGCTGTACTATTTGTATGTAATATTTGGGTTGATCTATAAACACTGTCAGACTAAAGTT  
TTTAAATATACTTATTTCTAAGTATTTATTTTCAGCATTTATGAATTTGCAACATTGGCAAGTGATTTGGGATTT  
TAAATTTGCAAATGTTTCATTTATTCATATCATTGAATACACGTTGAACACATCCACATTGTATAGGATGTGGTAA  
TTAGCTTGTAACCAGGGTATGATCTGCTATTGTTATTTCTCCTCTTTATTGGAAAAAGGCCTCAGTTTAAATTAT  
TTTCTTCCCAAATAAATCACACATTTGGTTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 886**

MANVLCNRARLVSYLPGFCSLVKRNVNPKAFSTAGSSGSDESHVAAAPPDICSRTVWPDETMGPFPGPQDQRFQLP  
GNIGFDCHLNGTASQKKSLVHKTLPDVLAEPLSSERHEFVMAQYVNEFQGNDAPVEQEINSAETYFESARVECAI  
QTCPELLRKDFESLFPEVANGKLMILTVTQTKNDMTVWSEEVEIEREVLLKFINGAKEICYALRAEGYWADF I  
DPSSGLAFFGPYTNNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIFTNATPD SHIMKKLSGN

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**FIGURE 887**

TATCGCAAGCAGCAGTCTCTGGTCCCAGCCCACCCCATGCCCCCTCCCAGTCCCAGCACCCACCAGCAGTAATAAC  
AACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCC  
CACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTTGGAT  
AAGACAACGAACAAATGCAAAGGTTATGGTTTTGTGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGTGTCT  
GCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACATTTCT  
AATTTGCCACTCTCCATGGATGAGCAAGAAGTAGAAAATATGCTCAAACCATTTGGACAAGTTATTTCTACAAGG  
ATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGAAGCT  
GTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCCACAGAACCTTTATTGTGT  
AAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCATAGA  
GAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATTTTAT  
CCTTACCATAACAGTATTGCTACAAACCGAATGATCACTCAAACCTTCTATTACACCCTATATTGCATCTCCTGTA  
TCTGCCTACCAGGTGCAAAGTCCTTCGTGGATGCAACCTCAACCATATATTCTACAGCACCCCTGGTGCCGTGTTA  
ACTCCCTCAATGGAGCACACCATGTCACTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCAT  
CTGTCACTAGGCAGCACCGGAACATACATGCCTGCAACGTGAGCTATGCAAGGAGCCTACTTGCCACAGTATGCA  
CATATGCAGACGACAGCGGTTCCCTGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTCGAGACGTCTAATGAC  
CATTCTCCATATACCTTTCAACCTAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTG  
TGAAGGCTGAACAATCATGGATTTTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTT  
GAAAACGTTATTTATAATGAAATCAACTAAAACCTATTTTTGCTATAAGTTCTATAAGGTGCATAAAACCCCTAAA  
TTCATCTAGTAGCTGTTCCCCGAACAGGTTTATTTTAGTAAAAAAAAAAAA

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**FIGURE 888**

MAPPSPSTTSSNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYIISNLPLSMDEQELENMLKPFQGVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYPSYSIATNRMITQTSITPYIASPVSAQVQSPSWMQPQPYILQHPGAVLTPSMEHTMSLQP  
ASMISPLAQQMSHLSLGSTGTYMPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVETSNDHSPYTFQPNK

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**FIGURE 889**

AGACTTGGAACCCCAAAGTGTCCGCGACCCCTGCACGGCAGCTCCCTTCCAGCTTCATGGGCAAAGTGTGGAAAC  
AGCAGATGTACCCTCAGTACGCCACCTACTATTACCCCCAGTATCTGCAAGCCAAGTTTGGAAGGCATTCGGGAA  
TACCAAGTGAAAAGGAAGAGTGAAGAACAGAAAAATGTTAGTGGGATGGCAAACACTGTGAACATTGCTGTTTCT  
AGTGGGCCAGAAAAATCAGTCTCTGGTCCCAGCCCCACCCCATGGCCCCCTCCAGTCCCAGCACCCACCAGCAGTAA  
TAACAACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCC  
TCCCACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTT  
GGATAAGACAACGAACAAATGCAAAGGTTATGGTTTTGTGCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGT  
GTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACAT  
TTCTAATTGCCACTCTCCATGGATGAGCAAGAACTAGAAAATATGCTCAAACCATTTGGACAAGTTATTTCTAC  
AAGGATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGA  
AGCTGTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCACAGAACCCTTTATT  
GTGTAAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGGAAGACCATGGCA  
TAGAGAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATT  
TTATCCTTACCATAACAGTATTGCTACAAAACCGAATGATCACTCAAACCTTCTATTACACCCTATATTGCATCTCC  
TGTATCTGCCTACCAGGTGGCAAAGGAAAACCAGAGAAAACAAGTATCGGGGCTCTGCTATCAAGGTGCAAAGTCC  
TTCGTGGATGCAACCTCAACCAATATATTCTACAGCACCCCTGGTGCCGTGTTAACTCCCTCAATGGAGCACACCAT  
GTCCTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCATCTGTCACTAGGCAGCACCGGAAC  
ATACATGCCTGCAACGTGAGCTATGCAAGGAGCCTACTTGCCACAGTATGCACATATGCAGACGACAGCGGTTCC  
TGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTGAGACGTCTAATGACCATTCTCCATATACCTTTCAACC  
TAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTGTGAAGGCTGAACAATCATGGATT  
TTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTTGAAAACGTTATTTATAATGAAAT  
CAACTAAAACATTTTTTGTCTATAAGTTCTATAAGGTGCATAAACCCCTTAAATTCATCTAGTAGCTGTCCCCCG  
AACAGGTTTATTTTAGTAAAAA

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**FIGURE 890**

MAPPSPSTTSSNNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFQVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYPSPIATNRMITQTSITPYIASPVSAIQVAKETRENKYRGSIAKVQSPSWMQPQPYILQHP  
GAVLTSPMEHTMSLQPAISMISPLAQQMSHLSLGSTGTYPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVE  
TSNDHSPYTFQPNK

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**FIGURE 891**

GGCTAATGTAACATACTCTACCACTTGGTCTGAAGCCCAGCAGTATCTGATGGATAATCCAACCTTTTGCAGAAGA  
TGAGGAGTTACAAAATATGGACAAAGAAGATGCATTAATTTGCTTTGAAGAACACATTCGGGGCTTTAGAAAAGGA  
GGAAGAAGAAGAAAAACAGAAGAGTTTGCTGAGAGAAAGGAGACGACAGCGAAAAAATAGGGGAATCTTCCAGAT  
ATTTTTAGATGAATTACATGAACATGGACAACCTGCATTCTATGTCATCTTGGATGGAATTGTATCCAACCTATTAG  
TTCTGATATTAGATTCACTAATATGCTTGGTCAGCCTGGATCAACTGCACTTGATCTTTTCAAGTTTTATGTTGA  
GGATCTTAAAGCACGTTATCATGACGAGAAGAAGATAATAAAAGACATTCTAAAGGATAAAAGGATTTGTAGTTGA  
AGTAAACACTACTTTTGAAGATTTTGTGGCGATAATCAGTTCAACTAAAAGATCAACTACATTAGATGCTGGAAA  
TATCAAATTTGGCTTTCAATATTACTAGAAAAGGCAGAAGCCCGTGAACGTGAAAGAGAAAAAGAAGAGGCTCGGA  
AGATGAAACGAAAAGAATCTGCATTTAAGAGTATGTTAAAACAAGCTGCTCCTCCGATAGAATTGGATGCTGTCT  
GGGAAGATATCCGTGAGAGATTTGTAAAAGAGCCAGCATTTGAGGACATAACTCTAGAATCTGAAAGAAAACGAA  
TATTTAAAGATTTTATGCATGTGCTTGAGCATGAATGTCAGCATCATCATTCAAAGAACAAGAAACATTCTAAGA  
AATCTAAAAAACATCATAGGAAAACGTTCCCGCTCTCGATCGGGGTGAGATTGAGATGATGATGATAGCCATTCAA  
AGAAAAAAGACAGCGATCAGAGTCTCGTTCTGCTTCAGAACATTCTTCTAGTGCAGAGTCTGAGAGAAGTTATA  
AAAAGTCAAAAAAGCATAAGAAGAAAAGTAAGAAGAGGAGACATAAATCTGACTCTCCAGAATCCGATGCTGAGC  
GAGAGAAGGATAAAAAAGAAAAAGATCGGGAAAGTGA AAAAGACAGA ACTAGACAAAGATCAGAATCAAAACACA  
AATCGCCTAAGAAAAAGACTGGAAGGATTCTGGTAATTGGGATACTTCTGGCAGCGAACTGAGTGAAGGGGAAT  
TGGAAAAGCGCAGAAGAACCCCTTTTGGAGCACTGGATGATGATCAATAAATTATAACCAAATATATGTTTACAGT  
ATGATTTAAAGTCTGATTGAGACCAGGGACTCTATTTTAAAGTTCAACTGAAATAACACTGGGTTTTAATTATATC  
ACAGGAAAAAAAAGTGCATTTAAGTATTGTTATCGTGGACTTTATAAAAGCAAAGGAAATTGAAAGTAACTTTT  
GATTCTGTATCAAGAATCATATTTTCATACAGTCATAACTGTCTTTCTGTGACCCTTTCACAGGGCACTGTAGGA  
TGGATTAAAGGTGGCAATTTACTGATAACTGCAGATGTCTCTACTTTGTTCTAAAATCTAAGTCATGAGGTGATT  
TGATTTACTTTTATAGAAGCTGGATTTTGAAGATCTAATGAAAAATTTTTTGATAATATAGTAGTACAAAAAAGC  
ACCAGCAACTGATAAAAATTGCTTTTTTGTGCGCTACCCAACCTGGTTAAAGCCAATGTGATCTTTTATGGTGAAA  
CTCCTAAGAAACAGGTGGTTTTGCTGGAACTTGGTAGACCCTTAATTATAGTGGTGCTAATGAGCACTACTGTA  
ATATAAGCCACCATTATTTTTTATCAAACATCTGAATACATTTTACAAAGGCTATTGTGAGGGCATTATTTTGA  
GCATCTATTTTGAAGGTGATGTTTAAAAAACTTTTAAACATCAAATCAAATTGTAAATTAATTTAAATATATTGCCT  
TAAGGACCTACTAAAGAATGTGCCACCAGACTTTAAGTGATAGTTGCAATATCCTTGTCTAAAAAAAAAAAAAAAA  
GTTGACTTAAACATTTTCTTTAACAGTTGTCTTTTTTTTCTAAATTCAGTCTTTCTCTTGCTTTTTTTTCCCTGC  
TATTGAGGAAGTATTTTGCCTTCCCTACTCACTGAGAAGTATTGACTTCGTGGTACACATTCTAAAGCATTCTCG  
ATTTGAATATTTTTGTACATTTTTATCAATTATTAAACCTTCTCTTAGTG

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**FIGURE 892**

MLEISNWLSILLEKAEAREREREKEEEARKMKRKESAFKSMKQAAPPIELDAVWEDIRERFVKEPAFEDITLESE  
RKRIFKDFMHVLEHECQHHSKNNKHSKKSCKHHRKRSRSGSDSDDDSHSKKKRQRSESRASEHSSSAESE  
RSYKSKKHKKKSKKRRHKSDSPESDAEREKDKKEKDRESEKDRTRQRSESKHKSPKKKTGKDSGNWDTSGSELS  
EGELEKRRRTLLEQLDDQ



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**FIGURE 893**

CCAGCACGCGGCCGCTCTGGCCCAGGGAAGTCCCTGTCCTTACCTTCAGCAGGAGCCGGTTCCCTGTGTGTGTGT  
CCGCTCGCCCTCTGCTCCGTCCGTGCGGCTGCCCACTGCCCTCCTACGGTCCACCATGGCCCTGCTGCACTCCGGC  
CGCGTCTCCCCGGGATCGCCGCCGCTTCCACCCGGGCTCGCCGCCGCGGCTCTGCCAGAGCCAGCTCCTGG  
TGGACCCATGTGGAATGGGACCTCCAGATCCCATTTCTGGGAGTCACTGAAGCCTTTAAGAGGGACACCAATAGC  
AAAAAGATGAATCTGGGAGTTGGTGCCCTACCGGGATGATAACGGAAGCCTTACGTGCTGCCTAGCGTCCGCAAG  
GCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGCCCATTTGGGGGACTGGCTGAATTTTGCAAG  
GCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGAGTGGCCGGTTTGCTACTGTGCAGACCATT  
TCTGGAACCTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGATTTTTTAAGTTCAGCCGAGATGTCTTTCTG  
CCCAAACCAACCTGGGGAAACACACACCCATCTTCAGGGATGCTGGCATGCAGCTACAAGGTTATCGGTATTAT  
GACCCCAAGACTTGGCGTTTTGACTTCACAGGCGCTGTGGAGGATATTTCAAAAATACCAGAGCAGAGTGTTCTT  
CTTCTGCATGCCTGCGCCACAATCCCACGGGAGTGGACCCGCTCCGGAACAGTGAAGGAAATAGCAACAGTG  
GTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAGGCTTTGCCAGTGGTGATGGTGATAAGGAT  
GCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGC  
TTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATGCGGATGAAGCCAAAAGGGTAGAGTCACAG  
TTGAAGATCTTGATCCGTCCCATGTATTCCAACCCTCCCCTCAATGGGGCCCGGATTGCTGCTGCCATTCTGAAC  
ACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGGCATGGCTGACCGCATCATTGGCATGCGGACTCAA  
CTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAACACATCACCGACCAAATTGGCATGTTCTGT  
TTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGTTCTCCATCTACATGACAAAAGATGGCCGC  
ATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGCTACCTTGCCCATGCCATTACCAGGTACCAAGTAATGT  
CCCTGGTGCGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTGCTATTGAGAGCTTCACACAGACAATGAGA  
GAGGGTGGATGGTGGTGAGTGGATCATTTCTTTTACGCCACAGTGTGTAACACTCAGCATTTGAATGTTTCTCAGA  
AAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTCTGGAATATTAAACCAAACCTCTCCCCGGTC  
CTTTTTTCTCCAACTTTTCTCAAAGAGTTTACATGTGCAAGAAAGTCATCGCACCAAAAAACCTGTCAATTATGC  
CATTGCAATATTTCAGAAGCTTTAACTGAAGTGTGAGTTCTCTGAGAAACAGCACACGTTAGAGGCTTTGAG  
AGAAGGCCTAGTTCTGTCTATGAGTAGTCGGCCTCGTGTCTGTCTCTCCCATCTTGGAACAACCTTATCAACAGGCC  
GCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCACTCCAGCAAGGGAAATAATGCAGTTTCCT  
GTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATTGCCGTTCTTTTCTTACACGCAAAGATTT  
TTTAACTATTGCAGATTTTCATCCCATTCTACTGCTTGATTGACCATCAACTCCATCCTATCGAGATTTATTTAA  
GAATGAAGAACATAATTTTCTGCTGATGCCGTACCTCACCTTTTTCAGCAAAGAATAGTGGAGAGTAGGAACT  
GTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCAGTTGGGATGTTGTCTCTGCCCCGGTTGGAC  
CTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTGTGAGTCCAGCGGCGCAGGGTGGTACCAGG  
AAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTTCAAGCTTCACCCACTGGAAAGAACCACCATCTGCT  
CTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTTACAATAAAATTACTGTAGACCC

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**FIGURE 894**

GAGTGACTCCACCGCCCGGAGCAGCGGTGCAGGACGCGCGTCTCCGCCGCCCGCGGTGACTTCTGCCTGCGCTCC  
TTCTCTGAACGCTCACTTCCGAGGAGACGCCGACGATGAAGACACCGTGGAAGGTTCTTCTGGGACTGCTGGGTG  
CTGCTGCGCTTGTCACCATCATCACCGTGCCCGTGGTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACA  
GTCGCAAAACTTACACTCTAACTGATTACTTAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATT  
CAGATCATGAATATCTCTACAAACAAGAAAAATAATATCTTGGTATTCAATGCTGAATATGGAAAACAGCTCAGTTT  
TCTTGGAGAACAGTACATTTGATGAGTTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTA  
TTCTCTTAGAATACAACCTACGTGAAGCAATGGAGGCATTCTACACAGCTTCATATGACATTTATGATTTAAATA  
AAAGGCAGCTGATTACAGAAGAGAGGATTCCAAACAACACACAGTGGGTCACATGGTCACCACTGGGTCATAAAT  
TGGCATATGTTTGGAAACAATGACATTTATGTTAAATTTGAACCAATTTACCAAGTTACAGAATCACATGGACGG  
GGAAAGAAGATATAATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCCTACTCTGCTC  
TGTGGTGGTCTCCAAACGGCACTTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCCCACTTATTGAATACT  
CCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCCAAAGGCAGGAGCTGTGAATC  
CAACTGTAAAGTTCTTTGTTGTAAATACAGACTCTCTCAGCTCAGTCACCAATGCAACTTCCATACAAATCACTG  
CTCCTGCTTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGACATGGGCAACACAAGAAAGATTTCTTTGC  
AGTGGCTCAGGAGGATTGAGAACTATTTCGGTCAATGGATATTTGTGACTATGATGAATCCAGTGGAAAGATGGA  
GCTTAGTGGCACGGCAACACATTGAAATGAGTACTACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATT  
TTACCCTTGATGGTAATAGCTTCTACAAGATCATCAGCAATGAAGAAGTTACAGACACATTTGCTATTTCCAAA  
TAGATAAAAAAGACTGCACATTTATTACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCACTGATT  
ATCTATACTACATTAGTAATGAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACCTAGTGACT  
ATACAAAAGTGACATGCCTCAGTTGTGAGCTGAATCCGGAAGGTGTCAGTACTATTCTGTGTCATTGAGTAAAG  
AGGCGAAGTATTATCAGCTGAGATGTTCCGGTCTGCTGCTGCCCTCTATACTCTACACAGCAGCGTGAATGATA  
AAGGGCTGAGAGTCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAATGTCCAGATGCCCTCCAAAAAAC  
TGGACTTCATTATTTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTTTGTATAAATCCAAGA  
AATATCCTCTACTATTAGATGTGTATGCAGGCCATGTAGTCAAAAAGCAGACACTGTCTTCAGACTGAACTGGG  
CCACTTACCTTGCAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTGGTTACCAAGGAGATA  
AGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAATTGAAGCAGCCAGACAATTTT  
CAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCAATGGAGGGTACGTAACCTCAATGG  
TCCTGGGATCGGGAAGTGGCGTGTTCAGTGTGGAATAGCCGTGGCGCCTGTATCCCGGTGGGAGTACTATGACT  
CAGTGTACACAGAAGCTTACATGGGTCTCCCACTCCAGAAGACAACCTTGACCATTACAGAAATTCACAGTCA  
TGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTACCTCCTTATTCAATGGAACAGCAGATGATAACGTTCACTTTC  
AGCAGTCAGCTCAGATCTCCAAAGCCCTGGTCTGATGTTGGAGTGGATTTCAGGCAATGTGGTATACTGATGAAG  
ACCATGGAATAGCTAGCAGCACAGCACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCT  
CTTTACCTTAGCACCTCAAATACCATGCCATTTAAAGCTTATTTAAACTCATTTTTGTCTTCTCATTATCTCAAAA  
CTGCACTGTCAAGATGATGATGATCTTTAAATAACACACTCAAATCAAGAACTTAAGGTTACCTTTGTTCCCAA  
ATTTACATACCTATCATCTTAAGTAGGGACTTCTGTCTTCACAACAGATTATTACCTTACAGAAGTTTGAATTATC  
CGGTCCGGTTTTATTGTTTTAAATCATTCTGTCATCAGCTGCTGAAACAACAATAGGAATTGTTTTATGGAGG  
CTTTGCATAGATTCCTGAGCAGGATTTTAAATCTTTTTCTAACTGGACTGGTTCAAATGTTGTTCTCTTTAA  
AGGGATGGCAAGATGTGGGCAGTGTGCTACTAGGGCAGGGACAGGATAAGAGGGATTAGGGAGAGAAGATAGCA  
GGGCATGGCTGGGAACCCAAGTCCAAGCATACCAACACGAGCAGGCTACTGTGAGCTCCCTCGGAGAAGAGCTG  
TTCACAGCCAGACTGGCACAGTTTTCTGAGAAAGACTATTCAAACAGTCTCAGGAAATCAAATATGCAAAGCACT  
GACTTCTAAGTAAACCACAGCAGTTGAAAGACTCCAAAGAAATGTAAGGGAACTGCCAGCAACGCAGGCCCC  
CAGGTGCCAGTTATGGCTATAGGTGCTACAAAAACACAGCAAGGGTGATGGGAAAGCATTGTAAATGTGCTTTTA  
AAAAAAAATACTGATGTTCTAGTGAAAGAGGCAGCTTGAACTGAGATGTGAACACATCAGCTTGCCCTGTTAA  
AAGATGAAAATATTTGTATCACAAATCTTAACCTGAAGGAGTCTTGATCAATTTTCTATTTCATTTCTTTG  
AGTGTCTTAATTAAGAATATTTTAACTTCCTTGACTCATTTTAAAAATGGAACATAAAATACAATGTTATG  
TATTATTATCCCATCTACATACTATGGAATTTCTCCAGTCATTTAATAAATGTGCCTTCATTTTTTC

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**FIGURE 895**

MKTPWKVLLGLLGAAALVTIIITVPVLLNKGTDDATADSRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENN  
ILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPDGQFILLEYNVYKQWRHSYTASYDIYDLNKRQLITEERIPN  
NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITDWVYEEVFSAAYSALWWSFNGTFLAY  
AQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITAPASMLIGDHYL  
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEPHTLDGNSFYKII  
SNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPPGGRNLYKIQLSDYTKVTCLSCELN  
PERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFW  
YQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGT  
FEVEDQIEAARQFSKMGFVDNKRIATWGWSYGGYVTSMLVSGSGVFKCGIAVAPVSRWEYYDSVYTERYMGLPT  
PEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQAQISKALVDVGVDFOAMWYTDEDHGIASSTAHQH  
IYTHMSHFIKQCFSLP

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**FIGURE 896**

GTTTGAAATCGGAAAGTTGGCGGGGCTGCGGGAGCTGAGCCTAGAGTCCGGCTGTTGGCTAGAGTGGGCGCGGAT  
CTGGTGTGGGGAAGGCGGCGGGACTCAGGCCTGCCTGCGAAGCATTGTCCTACATAATGGTAGAGGACGAAGTGG  
CACTTTTCGATAAAAAGCATAAATGAATTTTGGGAATAAATTCAAAAGTACGGACACCTCCTGTCAGATGGCGGGAC  
TAAGAGATACCTACAAGGATTCCATCAAAGCATTTCAGAGAAAAGCTGTCTGTGAAATTAAAGGAAGAAGAACGAA  
TGGTTGAGATGTTTCTGGAATATCAAAATCAGATCAGCAGGCAAAATAAGCTCATTCAAGAAAAAAGGATAACT  
TGTTAAAATTGATTGCTGAAGTAAAAGGCAAAAAGCAGGAATTGGAAGTACTGACTGCAAATATCCAGGATCTTA  
AGGAAGAATATTCTAGGAAGAAGGAACTATTTCTACTGCTAATAAAGCGAATGCAGAGAGGTTGAAAAGGCTGC  
AGAAATCTGCAGACTTGTATAAAGATCGACTTGGACTAGAAATTCGAAAAATTTATGGTGAGAAATTGCAGTTTA  
TTTTCACTAATATTGACCCTAAGAATCCTGAGAGCCCATTTATGTTTTCTTACATCTCAATGAAGCAAGGGACT  
ATGAAGTGTGAGATAGTGCCCCCTCATCTTGAGGGCCTAGCAGAATTTCAAGAGAATGTAAGGAAGACCAACAATT  
TTTCAGCTTTTCTTGCCAATGTTTCGGAAAGCTTTTACTGCCACGGTTTATAATTAAACATACAAATAGTGTATATA  
AAAACGGTTTATTTTCTTCTCTATTACATATCTTTTTTTTTCTTGTTTTATTATTACTATACTTTAAGTTTT  
AGGGTACATGTGCACAATGTGCAGGTTTGTTACATATGTATACATGTGCCATATTGGTGTGCTGCACCCATTAAAC  
TCGTCATTTCAATTAGGTATATCTCCTAATGCTATCCCTCCCCCTCCCCCAACCCACAACAGTCCCCGTTGTGTG  
ATGTTCCCTTCCCTGTGTCCATGTGTTCTCATTTGTTCAATTTCCACCTAGGAGTGAGAATATGTGGTGTGTTGGTT  
TTTTGTCTTTTCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTTTCTACAAAGGACATGAAGTCA  
TCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGA  
CATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCGAAATAAACATACGTGTGCATGTGTCTCCAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 897**

MVEDELALFDKSINEFWNKFKSTDTSCQMAGLRDITYKDSIKAFAEKLSVKLKEEERMVEMFLEYQNQISRQNKLI  
QEKKNLLKLI AEVKGKKQELEVLTANIQDLKEEYSRKKETISTANKANAERLKRLOKSADLYKDRLGLEIRKIY  
GEKLQFIFTNIDPKNPESPFMFSLHLNEARDYEVSDSAPHLEGLAEFQENVRKTNNFSAFLANVRKAFTATVYN

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**FIGURE 898**

AAGCACAGGCCACCACTCTGCCCTGGTCCACACAAGCTCCGGTAGCCCATGGAGCCCTGGCCTCTCCTCCTGCTC  
TTTAGCCTTTGCTCAGCTGGCCTCGTCCCTGGGCTCCGAACATGAGACCCGTCTGGTGGCAAAGCTATTTAAAGAC  
TACAGCAGCGTGGTGCGGCCAGTGGAAGACCACCGCCAGGTTCGTGGAGGTCACCGTGGGCCTGCAGCTGATACAG  
CTCATCAATGTGGATGAAGTAAATCAGATCGTGACAACCAATGTGCGTCTGAAACAGCAATGGGTGGATTACAAC  
CTAAAATGGAATCCAGATGACTATGGCGGTGTGAAAAAATTACATTCCCTTCAGAAAAGATCTGGCGCCCAGAC  
CTTGTTCTCTATAACAATGCAGATGGTGACTTTGCTATTGTCAAGTTCACCAAAGTGCTCCTGCAGTACACTGGC  
CACATCAGCTGGACACCTCCAGCCATCTTTAAAAGCTACTGTGAGATCATCGTCACCCACTTTCCCTTTGATGAA  
CAGAACTGCAGCATGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCTGGCCATCAACCCGGAAAGCGACCAG  
CCAGACCTGAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGACC  
TATTCCTGCTGCCCCGACACCCCTACCTGGACATCACCTACCACTTCGTCAATGCAGCGCCTGCCCTCTACTTC  
ATCGTCAACGTCATCATCCCTGCCTGCTCTTCTCCTTCTTAACTGGCCTGGTATTCTACCTGCCACAGACTCA  
GGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCTTCTGGTCATCGTGGAGCTGATC  
CCCTCCACGTCCAGTGCTGTGCCCTTGATTGGAATAACATGCTGTTTACCATGGTGTTCGTCAATGCTCCATC  
ATCATCACTGTCATCGTCATCAACACACACCACCGCTCACCCAGCACCCATGTCATGCCCAACTGGGTGCGGAAG  
GTTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCACAATGAAAAGACCATCCAGAGAAAAGCAAGACAAA  
AAGATTTTACAGAAGACATTGATATCTCTGACATTTCTGGAAAGCCAGGGCCTCCACCCATGGGCTTCCACTCT  
CCCCTGATCAAACACCCCGAGGTGAAAAGTGCCATCGAGGGCATCAAGTACATCGCAGAGACCATGAAGTCAGAC  
CAGGAGTCTAACAATGCGGCGGCAGAGTGGAAGTACGTTGCAATGGTGATGGACCACATACTCCTCGGAGTCTTC  
ATGCTTGTTTGCATCATCGGAACCTAGCCGTGTTTGCAGGTCGACTCATTGAATTAATCAGCAAGGATGAGCA  
GAAAATGAGCTGAGCTTAGCTCTGCCCTGGAACCTACCAGAGCAGAGAAGGGCAGGAGAGGAAGATTTGTCTACT  
TGCTCCACTCGCACTTATCAAACGTGTTATATTCCATACTTATTATTGATGATAAGATTTACCTTTATGTAAGTT  
TATGGCCTTGAAGTGTTTTCATATTGCTTCTCCCTTTAGTTCTGCTGTCTCCCTGAAGAGTGAACCTCTTTAGT  
AAATGAACTAATCACT

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**FIGURE 899**

MEPWPLLLLFSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNVR  
LKQQWVDYNLKWNPDDYGGVKKIHIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEI  
IVTHFPFDEQNCSMKLGTWYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHF  
VMQRLPLYFIVNVIIPCLLFSFLTGLVFYLPDTSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMFL  
TMVFVIASIIITVIVINTHHRSPSTHVMPNWRKVFIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKP  
GPPPMGFHSPLIKHPEVKSAIEGIKYIAETMKSDQESNNAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRL  
IELNQOG

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**FIGURE 900**

GTTTCGCAGCCCGCCGCGCCGCGCCGTCGCTCTCCAACGCCAGCGCCGCTCTCGCTCGCCGAGCTCCAGCCGAAG  
GAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGCCCGCAAATCGACCGGTGGT  
AAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCT  
CATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACCTTCTGATTTCGC  
AAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCT  
ATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCAT  
GCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCC  
ACTATGATGGGAAACATTTTCACTTCTCAAAAAAAAAAAAAAAAAAATTTCTCTTCTTCTGTTATTGGTAGTTCTGAAC  
GTTAGATATTTTTTTTCCATGGGGTCAAAAGGTACCTAAGTATATGATTGCGAGTGGAAAAATAGGGGACAGAAA  
TCAGGTATTGGCAGTTTTTCCATTTTCATTTGTGTGTGAATTTTTAATAAATGCGGAGACGTAAAGCATTAAT  
GCAAGTTAAAATGTTTCAGTGAACAAGTTTCAGCGGTTCAACTTTATAATAATTATAAATAAACCTGTTAAATTT  
TTCTGGACAATGCCAGCATTGGATTTTTTTTAAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTGTTGT  
AGCATTTTTATCATAACAGTAGATTCCATCCATTCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACAT  
GTTTTTAATGTTGTCTGTCTTCTGTGCTGTTTCCTGTAAGTTTGCTATTAAAATACATTAAACTAT



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**FIGURE 901**

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC  
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC  
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC  
CACTGAACTTCTGATTGCAAACTTCCCTTCCAGCGTCTGGTGGAGAGAAATTGCTCAGGACTTTAAACAGATCT  
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACAC  
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGG  
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCAATTCTCTCCATGGGGTCAAAGGTACCTAAGTATAT  
GATTGCCGAGTGGA

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**FIGURE 902**

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI  
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

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**FIGURE 903**

CAGCCGTTGAGGGGACGGGCCTGCGTTCTCTCCTCCTCCCGCCTCCAGCTGCCGGCAGGACCTTTCTCTC  
GCTGCCGCTGGGACCCCGTGTCATCGCCAGGCCGAGCACGATGCCCCCTAAAAAGGGAGGTGATGGAATTAAAC  
CACCCCAATCATTGGAAGATTTGGAACCTCACTGAAAATTGGTATTGTTGGATTGCCAAATGTTGGGAAATCTA  
CTTTCTTCAATGTGTTAACCAATAGTCAGGCTTCAGCAGAAAACCTCCCGTTCTGCACTATTGATCCTAATGAGA  
GCAGAGTACCTGTGCCAGATGAAAAGGTTTGACTTTCTTTGTCAATACCACAAACCAGCAAGCAAAATTCCTGCCT  
TTCTAAATGTGGTGGATATTGCTGGCCTTGTGAAAGGAGCTCACAATGGGCAGGGCCTGGGGAATGCTTTTTTAT  
CTCATATTAGTGCCTGTGATGGCATCTTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAG  
GAAGTGTAGATCCTATTTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGC  
CCATTATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAGATAAAAACTAAACCTGAATATGATATAATGT  
GCAAAGTAAATCCTGGGTTATAGATCAAAAGAAACCTGTTTCGCTTCTATCATGATTGGAATGACAAAGAGATTG  
AAGTGTGGAATAAACACTTATTTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAAAAGACTACA  
TTAGAAAGAAAAACAAATGGTTGATAAAAAATTAAAGAGTGGGTGGACAAGTATGACCCAGGTGCTTTGGTCATT  
CTTTTAGTGGGGCCTTGGAACCAAGTTGCAAGAATTGAGTGCTGAGGAGAGACAGAAGTATCTGGAAGCGAACA  
TGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTGACGACTCCAACCTAGAATACTTTTTCACTGCAG  
GCCCAGATGAAGTGCGTGTCATGGACCATCAGGAAAGGGACTAAGGCTCCTCAGGCTGCAGGAAAGATTACACAG  
ATTTTGAAAAGGGATTCAATTATGGCTGAAGTAATGAAATACGAAGATTTTAAAGAGGAAGGTTCTGAAAATGCAG  
TCAAGGCTGCTGGAAGTACAGACAACAAGGCAGAAATTATATTGTTGAAGATGGAGATATTATCTTCTTCAAAAT  
TTAACACACCTCAACAACCGAAGAAGAAATATAATTTAGTTATTGCTCAGATAAACATACAACCTTCCAAAAGGCA  
TCTGATTTTTAAAAAATTAAAAATTTCTGAAAACCAATGCGACAAATAAAGTTGGGGAGATGGGAATCTTTGACAA  
ACAAATTATTTTTATTTGTTTTAAAAATTAAAAACTGTGTACCCCCCCCCCCCCATGAAATGCAGGTTCACTAAA  
TGTGAACAGCTTTGCTTTTCACGTGATTAAGACCTACTCCAAATTGTAGAAGCTTTTCAGGAACCATATTACTC  
TCATGATACTTCATTAATCTCCATCATGTATGCCAAGCCTGACACATTTGACAGTGAGGACAATGTGGCTTGCTC  
CTTTTGAATCTACAGATAATGCATGTTTTACAGTACTCCAGATGTCTACACTCAATAAAACATTTGACAAAACC  
AAAAA?AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 904**

MPPKKGGDIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLTNSQASAENFPFCTIDPNESRVFPVDERFDFLC  
QYHKPASKIPAFNLNVVDIAGLVKGAHNGQGLGNAFLSHISACDGIFHLTRAFEDDDITHVEGSVDFIRDIEIIE  
ELQLKDEEMIGPIIDKLEKVAVRGGDKKLKPEYDIMCKVKSVIDQKKPVRFYHDWNDKEIEVLNKHFLFTSKPM  
VYLVNLSEKDYIRKKNKWLIIKIKEWVDKYDFGALVIPFSGALELKLQELSAEERQKYLEANMTQSALPKIIKAGF  
AALQLEYFFTAGPDEVRAWTIRKGTKAPQAAGKIHTDFEKGFI MAEVMKYEDFKEEGSENAVKAAGKYRQQGRNY  
IVEDGDIIFFKFNTFPQPKKK

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**FIGURE 905**

CTGCCAGCCGCGCTGCTGCTGCTCCTCCTGCTGTGGGACCGCTGACCGCGGGCTGCTCCGCTCTCCCCGCTCCA  
AGCGCCGATCTGGGCACCCGCCACCAGCATGGACGCTCGCCGCGTGCCGCAGAAAGATCTCAGAGTAAAGAAGAA  
CTTAAAGAAATTCAGATATGTGAAGTTGATTTCCATGGAGACCTCGTCATCCTCTGATGACAGTTGTGACAGCTT  
TGCTTCTGATAATTTTGCAAAACAGAAACCTAAATTCAGGTCAGATATCAGTGAAGAACTGGCAAGTGTITTTTAA  
TGAGGACTCTGATAATGAATCTTTCTGCGGCTTTTCAGAAAGTGAGGTGCAAGATGTATTAGACCATTGTGGATT  
TTTACAGAAACCAAGGCCAGATGTCACTAACGAACTGGCCGGTATTTTTTCATGCCGACTCTGACGATGAATCATT  
TTGCGGTTTTCTCAGAGAGTGAGATACAAGATGGAATGAGGCTGCAGTCAGTTCGGGAAGGCTGTAGGACCCGCAG  
CCAGTGCAGGCACTCTGGACCTCTCAGGGTGGCGATGAAGTTTCCAGCGCGGAGTACCAGGGGAGCAACCAACAA  
AAAAGCAGAGTCCCGCCAGCCCTCAGAGAATTCTGTGACTGATTCCAACCTCCGATTGAGAAGATGAAAGTGGAAT  
GAATTTTTTTGGAGAAAAGGGCTTTAAATATAAAGCAAAACAAAGCAATGCTTGCAAAACTCATGTCTGAATTAGA  
AAGCTTCCCTGGCTCGTTCCGTGGAAGACATCCCCCTCCAGGCTCCGACTCACAATCAAGGAGACCGCGAAGGCG  
TACATTCCCGGGTGTGCTTCCAGGAGAAACCTGAACGGAGAGCTCGTCTCTTACCAGGTCAAGGTCCCGGAT  
CCTCGGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGGAAGAGGATAAGTACATGTTGGTGAGAAAGAGGAA  
GACCGTGATGGCTACATGAATGAAGATGACCTGCCCAGAAGCCGTCGCTCCAGATCATCCGTGACCCCTCCGCA  
TATAATTCGCCCAGTGGAAGAAATTACAGAGGAGGAGTTGGAGAACGTCTGCAGCAATTCTCGAGAGAAGATATA  
TAACCGTTCACTGGGCTCTACTTGTCAATGCCGTCAGAAGACTATTGATACCAAAACAACTGCAGAAACCC  
AGACTGCTGGGGCGTTTCGAGGCCAGTTCTGTGGCCCTGCCTTCGAAACCGTTATGGTGAAGAGGTCAGGGATGC  
TCTGCTGGATCCGAACCTGGCATTGCCCGCCTTGTCGAGGAATCTGCAACTGCAGTTTCTGCCGCGCAGCGAGATGG  
ACGGTGTGCGACTGGGGTCCTTGTGTATTTAGCCAAATATCATGGCTTTGGGAATGTGCATGCCCTACTTGAAAAG  
CCTGAAACAGGAATTTGAAATGCAAGCATAATATCTGGAATAATTTGCTGCCTGCCTTCTACTTCTCAAATCTTTC  
TTGTAAAAGTTTCCAATTTTTTCACTGAAACCTGAGTTAAAAATCTTGATGATCAGCCTGTTTCATAAGAACTC  
CAATCAAGTTAATCTTAGCAGACATGTGTTTCTGGAGCATCACAGAAGGTATATTGCTAGTTACACTTTGCCCTC  
CTGCAGTTTCTTCTCTGCTCCCAACCCCATCTCATAGCATCCCCCTCTATTTCCAATGCTCCTCTCCAACCGCT  
TAGTTTCTGAATTTCTTTTAAATTACAGTTTTATGAAAGCATATTTTATTTACTTGGTGTGAAATAGCCCTCAT  
AAAACCTAAGCACTTGGAACACAATAATAGTATTAATACTAAGTATCTATTGAATTTAGAGAAGAGCCTTCTA  
ACTTGTTTACACAAAAACGAGTATGATTTAGCATTCTACTAGTTGAAATTTTTAATAGAATCAAGGCACAAAAG  
TCTTAAAACCATGTGGAAAAATTAGGTAATTATTGCAGATTGATGTCTCTCAATCCCATGTATTGCGCTTATGTT  
ACAAGTTGTTGTACAGTTGAGACTTAATTTCTCCTAATTTCTTCTGCCCGAAGGGTAAGTGGTGGTCCAGCTT  
ACACAATCATAATTCAAAGTTGGTGGGCAATGTAATACTTAATTAATAATGATGGAAGAGCTATCTGGAGAT  
TATGAGTAAGCTGATTTGAATTTTCACTATAAACTTTAGTATAATTGTAGTTTGCAGAGTTTATTTAGTTTAC  
ATGTAAGGTATTGCAATAAATTTCTGGACAATTTGTATGGAACTTGATATTAATAAACTAGTCTGTGGTTCTT  
TGCAGTTTCTTGTAATTTTATAAACCAGGCACAAGGTTCAAGTTTAGATTTTAAAGCACTTTTATAACAATGATAA  
GTGCCTTTTTGGAGATGTAACTTTTAGCAGTTTGTAACTTGACATCTCTGCCAGTCTAGTTTCTGGGCAGGTTT  
CCTGTGTCAGTATTTCCCTCCTCTTTGCATTAATCAAGGTATTTGGTAGAGGTGGAATCTAAGTGTGTTGTATGT  
CCAATTTACTTGATATGTAAACCATTTGCTGTGCTATTCAATGTTTGTATGCATAATTGGACCTTGAATCGATAAG  
TGTAATAACAGCTTTTGATCTGTAATGCTTTTATACAAAAGTTTATTTTAATAATAAAATGTTTGTCT

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**FIGURE 906**

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTKPKFRSDISEELASVFYEDSDNESFC  
GFSESEVQDVLDHCGFLQKPRPDVTNELAGIFHADSDDSEFCGFSESEIQDGMRLQSVREGCRTRSQCRHSGPLR  
VAMKFPARSTRGATNKKAESRQPSSENSVTDSNSDSEDESGMNFLEKRALNIKQNKAMLAKLMSELESFPGSFRGR  
HPLPGSDSQSRRPRRRTFFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEEDKYMLVRKRKTVDGYMNED  
DLPRSRRSRSSVTLPHIIRPVEEITEEELENVCSNSREKIYNRSLGSTCHQCRQKTIDTKTNCRNPDWGVRGQF  
CGPCLRNRYGEEVRDALLDPNWHCPPCRGICNCSEFCRQRDGRCATGVLVYLAKYHGFGNVHAYLSLQEFEMQA

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**FIGURE 907**

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC  
AGCTGCTGGACATGTCCTACGAGCAGCTGGAGCAGCCGATGCAGCTGTACAGTGC GCGCCAGCGGCGGCGGCTGA  
ACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCCGCCCATGG  
AGAAGCAGGAAGTGGTGAAGACGCACCTGCGGGACATGATCATCCTACCCGAGATGGTGGGCAGCATGGTGGGCG  
TCTACAACGGCAAGACCTTCACCTACAAGCCCGTAAAGCACGGCCGGCCCGGCATCGGGGCCACCCACTCCTCCC  
GCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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**FIGURE 908**

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLEQPMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEK  
QEVVKTHLRDMIILPEMVGSMVGVYNGKTFTYKPVKHGRPGIGATHSSRFIPLK



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**FIGURE 909**

GCTGAAATTAAAAGTACTGAGCTTACCAAGTGTTGATAAGGATGTAGAGGAAGTGGAACTTTCATACACTGCTGG  
TGGGAATATAAAATGGTATAACCATTTTGGGAATACAAGTGGCAGTTTATTTGTTTGTGTTAGGTTGTTTTTACTC  
ACCACTATGCTAACGAGGAACCTGGCAGTTTCTTTAAAAGATAAACATATATCTCTGGTCCGTGCCTCCAAGATG  
ACAAAGAAAAAGGAACAACGGTCATGCCAAAAGGGCCGCGGCCACGTGCATCCTATTCGCTGCACTAACTGT  
ACCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAACGTAGTGGAGGCCGCAGCAGTCAGG  
GACATTTCTGAAGTGAGCGTCTTCAATGCCTATGTGCTTCCCAAGCTGTATGTGAAGCTATATTACTGTGTGAGT  
TGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCACAAAGACCGAACACCCCCACCCTGATTT  
AGACCTGTGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCTGAGTTCTTAAAGACTGAAGACAGA  
CTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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**FIGURE 910**

CTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAAGTGGAGCCAG  
AGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGATGATCTAGATG  
ACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAG  
GTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGCTTG  
GCAATAAAAAGAAGAAAAAGAAGTGTAAAGTTCCAGATGAGGATGAAGCTCTAGAAGATGAAGACAACAAAA  
AAGATGATGGTATCTCATTCAAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGG  
AGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTG  
TCATGAAACCTCCACAAGTCGTCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAAAC  
TTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGA  
GAAGATATATCAAGGAGTATGTCACATGCGGATCACCAGGACACAATCCTGCAGAAGGACATGCGAC  
TCTATTTCTACAGTGCGAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAATTTGGCTTCCAGGCTGTCA  
TGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAG  
ATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCATTTGATTAATAAACAAGATAAAAAAGCTGCCAAGATT  
TTTGGCGAGTGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTAC  
TTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATAGTTCATAGACTTCTGTAAAA  
TGCAAGATAAATTAAAGTTATTATAACAGTGA

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**FIGURE 911**

GGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCC  
GAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAG  
AAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAA  
GTGGAGCCAGAGCCAACGAGGACAAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAGATGCTTCTGAT  
GATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAA  
GCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGAC  
ATTATGCTTGGCAATAAAAAAGAAAAAGAAGTGTAAAGTTCCAGATGAGGATGAAGCTCTAGAAGATGAA  
GACAACAAAAAGATGATGGTATCTCATTGAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTAC  
ACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAA  
AGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGAT  
ATCTGTAAACTATTACATCGTCAACCCAAACATCTCCTTGCAATTTTTATTGGCTGAATTGGGTACAAGTGGTTCT  
ATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATAT  
ATCAAGGAGTATGTCACCTTGTCACACATGCCGATCACC GGACACAATCCTGCAGAAGGACATGCGACTCTATTTT  
CTACAGTGCAGAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAAATTGGCTTCCAGGCTGTCATGGGCAAG  
CGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCT  
GGACAGGTTTGCCATCAGAGTGGATATACCATTTGATTAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGA  
GTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTACTTTAACAC  
CTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATAGTTCATAGACTTCTGTAAAATGCAAGAT  
AAATTAAAGTTATTATAACAGTGA

**FIGURE 912**

CGAGTTTGAAGAGGAGGAGTCCGGTCTCAAAATGGAGGTAAACCGCCGCCGGTTCGCCCCAGCCCCGACTCCGGC  
CGTCGCCGTCGCCGCCGGGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAACCTGTTTATTGGT  
GGTCTGAGCTTTGAACTACAGATGATAGTTTACGAGAACATTTTGAGAAATGGGGCACACTCACAGATTGTGTG  
GTAATGAGAGACCCCCAAACAAAACGTTCCAGGGGCTTTGGTTTTGTGACTTATTCTTGTGTTGAAGAGGTGGAT  
GCAGCAATGTGTGCTCGACCACACAAGGTTGATGGGCGTGTAGTGGAAACCAAGAGAGCTGTTTCTAGAGAGGAT  
TCTGTAAAGCCTGGTGCCCATCTAAACAGTGAAGAAAATTTTGTGGTGGTATTAAAGAAGATACAGAAGAATAT  
AATTTGAGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAA  
AAGAGAGGATTGTCTTTTGTAACTTTTGATGATCATGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACT  
ATTAATGGGCATAATTGTGAAGTGAAAAAGGCCCTTTCTAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGT  
CGTGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGGGAACCTTTGGAGGTGGTGGAGGTAATTTTGGCCGTGGT  
GGAAACTTTGGTGGAAAGAGGTAGGCTATGGTGGTGGAGGTGGTGGCAGCAGAGGTAGTTATGGAGGAGGTGATGG  
TGGATATAATGGATTGGAGGTGATGGTGGCAACTATGGCGGTGGTCCTGGTTATAGTAGTAGAGGGGGCTATGG  
TGGTGGTGGACCAGGATATGGAACCAAGGTGGTGGATATGGTGGAGGTGGAGGATATGATGGTTACAATGAAGG  
AGGAAATTTTGGCGGTGGTAACTATGGTGGTGGTGGGAACATAATGATTTTGGAAATTATAGTGGACAACAGCA  
ATCAAATTATGGACCCATGAAAGGGGGCAGTTTTTGGTGGGAAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGG  
ATCTGGTGGTGGAAAGTGGTGGATATGGTAGCAGAAGGTTCTAAAAACAGCAGAAAAAGGGCTACAGTTCTTAGCAG  
GAGAGAGAGCGAGGAGTTGTCAGGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTG  
TAAAAATCTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAGGAAACCCTTCTTG  
TTCAGGACTGTCATAGCCACAGTTTGCAAAAAGTGCAGCTATTGATTAATGCAATGTAGTGTCAATTAGATGTAC  
ATTCTGAGGTCTTTTATCTGTTGTAGCTTTGTCTTTTTCTTTTTCTTTTCATTACATCAGGTATATTGCCCTGT  
AAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAGGAATTTTAACTTTTCAATATTGTGTAGTTTCAGTTTTT  
CTACATTTTAGTACAGAACTTTAAACAAAATGCAGTTTCGAAGGTGTTTCCCTGTGAGTTAACAAGTAAAGAAGA  
TCATTGTTAATTACTATTTTGTATGAATTTTGCTAAAGTTAACTGTAAAGAAACACCTGCTGACTTGCAGTTTAA  
GGGGAATCTATTCTCCCCATTTCCAAACCATGATATGAATGGGCGCTGACATGTGGAGAGAATAGATAAATTTGTG  
TGTTTGCAATGTGTGTTTTAGATAAATAGGATTGGGTATTTAAATTAGCATTTGTGAATTTAATAGCATTAAAGAT  
TACCTTCAAATGAAAAAAATCTCAAAATTTCTATTTGGTTTTTGTGCATTTCTTTTAAATGTAATCATATGA  
TTTTAGTGTGTTAGACTTGCTGAGTCCTAGCTGTGTTTAGAACATCTCTATTCTACATTTACCTTGGTCAAATTT  
GAAGTCTGCTGCCATAGG

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**FIGURE 913**

MEGHDPKEREQLRKPFIGGLSFETDDGLREHFEEKWVTLTDCVVMRDPQTKCSRGFGFVTYSYIEEVDAAMCAPP  
HKVDGCVVEPKRAVSREDFVKGAHLTVKKIFVGGIKIQKNII

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**FIGURE 914**

CTTCATCCTGCGACTAGCACCGCGTCCGGCAGCGCCTGCCCTACACTCGCCCGTGCCATGGCCTCCGTCTCCAAG  
CTCGCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTC  
ATTAAAGCAGCCGGTGTAATGTTGAACCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATT  
GGGAGCCTCATCTGCAATGTAGGGGCTGGTGGACCTGCTCCAGCTGAGGAGAAGAAAGTGGAAGCAAAGAAAGAA  
GAATCCAAGGAGTCTGATGATGACATGGGCCTTGGTCTTTTTGACTAAACCTCTTTTATAACGTGTTCAATAAAA  
AGCTGAACTT

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**FIGURE 915**

MASVSKLACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLICNVGAGGPAPAEKK  
VEAKKEESKESDDDMGLGLFD

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**FIGURE 916**

ACGGGGCCTGGGCGGSAGGGGCGGTGGCTGGAGCTCGGTAAAGCTCGTGGGACCCCATTTGGGGGAATTTGATCCA  
AGGAAGCGGTGATTGCCGGGGGAGGAGAAGCTCCCAGATCCTTGTGTCCACTTGCAGCGGGGGAGGCGGAGACGC  
GGAGCGGGCCTTTTGGCGTCCACTGCGCGGCTGCACCCTGCCCCATCCTGCCGGGATCATGGTCTGCGGCAGCCC  
GGGAGGGATGCTGCTGCTGCGGGCCGGGCTGCTTGCCCTGGCTGCTCTCTGCCTGCTCCGGGTGCCCGGGGCTCG  
GGCTGCAGCCTGTGAGCCCGTCCGCATCCCCCTGTGCAAGTCCCTGCCCTGGAACATGACTAAGATGCCCAACCA  
CCTGCACCACAGCACTCAGGCCAACGCCATCCTGGCCATCGAGCAGTTCGAAGGTCTGCTGGGCACCCACTGCAG  
CCCCGATCTGCTCTTCTTCTCTGTGCCATGTACGCGCCCATCTGCACCATTGACTTCCAGCACGAGCCCCATCAA  
CCCCTGTAAGTCTGTGTGCGAGCGGGCCCGGCAGGGCTGTGAGCCCATACTCATCAAGTACCGCCACTCGTGGCC  
GGAGAACCCTGGCCTGCGAGGAGCTGCCAGTGTACGACAGGGGCGTGTGCATCTCTCCCGAGGCCATCGTTACTGC  
GGACGGAGCTGATTTTCCTATGGATTCTAGTAACGGAAACTGTAGAGGGGCAAGCAGTGAACGCTGTAAATGTAA  
GCCTATTAGAGCTACACAGAAGACCTATTTCCGGAACAATTACAACCTATGTCATTCCGGGCTAAAGTTAAAGAGAT  
AAAGACTAAGTGCCATGATGTGACTGCAGTAGTGGAGGTGAAGGAGATTCTAAAGTCCTCTCTGGTAAACATTCC  
ACGGGACACTGTCAACCTCTATACCAGCTCTGGCTGCCTCTGCCCTCCACTTAATGTTAATGAGGAATATATCAT  
CATGGGCTATGAAGATGAGGAACGTTCCAGATTACTCTTGGTGGAAGGCTCTATAGCTGAGAAGTGAAGGATCG  
ACTCGGTAAAAAAGTTAAGCGCTGGGATATGAAGCTTCGTATCTTGGACTCAGTAAAAGTGATTCTAGCAATAG  
TGATTCCACTCAGAGTCAGAAGTCTGGCAGGAACCTCGAACCCCGGCAAGCACGCAACTTAAATCCCGAAATACAA  
AAAGTAACACAGTGGACTTCCTATTAAGACTTACTTGCAATTGCTGGACTAGCAAAGGAAAATTGCACTATTGCAC  
ATCATATTCTATTGTTTACTATAAAAATCATGTGATAACTGATTATTACTTCTGTTTCTCTTTTGTTTCTGCTT  
CTCTCTTCTCTCAACCCCTTTGTAATGGTTTGGGGGCAGACTCTTAAGTATATTGTGAGTTTTCTATTTCACTAA  
TCATGAGAAAACTGTTCTTTTGCAATAATAATAAATTAAACATGCTGTTA



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**FIGURE 917**

MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAIEQFEG  
LGTHCSPDLLFFLCAMYAPICTIDFQHEPINPCKSVCERARQGCEPILIKYRHSWPENLACEELPVYDRGVCISP  
EAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYNYVIRAKVKEIKTKCHDVTAVVEVKEILKS  
SLVNIPRDTVNLYTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMLRHLGLSK  
SDSSNSDSTQSQKSGRNSNPRQARN

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**FIGURE 918**

ATGTCCATCAGGACGACCCAGAAGTCCTACAGGGTGTCCACTTCTGGCCCCCGGGCCTTCAGCAGCCATTTCTAC  
ACAAGTGGGCCTGGTGCCTCCATCAGCTCCTCGAGCTTCTCCCAAGTGGGCAGCAGCAGCTTCCGGGGTGGCCTG  
GGAGGAGGCTACGGTGGGGCCAGTGGCATGGGAGGCATCACCACCGTCACTGTCAACCAGAGCCTGCTGAGCCCC  
CTTAACCTGGAGGTGGACCCACACATCCAGGCAGTGCACACTCAGAAGAAGGAGCAGATCAAGACCCTCAACACT  
AAGTTTGGCACCTTCATATACAAGAGTTACATCAACAACCTTAGGCAGCAGCTGGAGACTCTGGGCCAGGAAAAG  
CTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAGATC  
AATAAGCGTACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACCTGAACAAGGTA  
GAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAAATCAACTTCCTCAGGCAGCTGTATGAAGAGGATATCCCG  
GAGCTGCAGTCCCAGATCTCAGACACGTCTGTGGTGCTGCCCATGGACAACAGCCACTCCCTGGACATGGACAGC  
ATCATCAATGAGGTCAAGCGCAGTACGAGATCACCAACCGCAGCCAGCTGGCTCCAGGCAGAGATTGAGGGTCTC  
AAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATCGCAGATGCGGAGCAGCGCGGGGAGTTGGCCGTTAAGGATGCC  
AGCGCCAAGCTGTCTGAGCTGGAGGCCGCCCTGCAGCAAACCAAGCAGGACGTGGAGCTGATGAACGACAAGCTG  
GCCCTGGACATTGAGATCGCCACCTACAGGCAGCTGCTGGAGGGCGAGGAGAGCTGGCTGGAGTCTGGGATGCAG  
AGCATGAGTATCCATACAAAGACCATCAGCAGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGC  
CCGGGCCTCAGCTGTGGACTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGTTCCTTCAGCTGCATCAGCTAC  
ACCAGGGCCGTTGGTTGTGAAGAAGATTGAGACCCGTGATGGGACGCTGGTGTGAGATTCTCTGACGTCTGCCC  
AAGTGA

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**FIGURE 919**

MSIRTTQKSYRVSTSGPRAFSSHFYTSQPGASISSSSFQVGSSSFRGGLGGGYGGASGMGGITTVTVNQSLLSP  
LNLEVDPHIQAVHTQKKEQIKTLNFKFATFIYKSYINNLRQQLETLGQEKLEAELGNMQGLVEDFKNKYEDEI  
NKRTEMENEFVLIKKDVDEAYLNKVELESRLGLTDEINFLRQLYEEDIPELQSQISDTSVVLPMDNSHSLDMS  
IINEVKRSTRSPTAASWLQAEIEGLKGQRASLEAAIADAEQRGELAVKDASAKLSELEAALQQTQDVLMNDKL  
ALDIEIATYRQLLEGEESWLESGMQSMSIHTKTISSYAGGLSSAYGGLTSPGLSCGLGSSFGSGAGSSSFSCISY  
TRAVVVKKIETRDGTLVSEFSDVLPK

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**FIGURE 920**

ACGCAACCCCATAGGTAGCACGCCGTTACCCGTGGGGAGCGTTTCCGCCATTTTGGAAAATTAATTGGGAAGGT  
ACTGGTTTTAAGTGTAGTTGCCGACGCAATGGCAGCCTTTGCAGTGGAACCTCAGGGGCCCCGCGTTAGGATCTGA  
ACCAATGATGCTGGGTTTACCCACATCTCCAAAGCCAGGAGTTAATGCCCAGTTCTTACCTGGATTTTAAATGGG  
GGATTTGCCAGCTCCGGTGACTCCACAACCTCGATCAATTAGTGGCCCTTCAGTAGGAGTAATGGAAATGAGATC  
ACCTTTACTTGCAGGTGGGTCAACCACCACAACCAGTTGTACCAGCTCATAAAGATAAAAAGTGGCGCTCCACCAGT  
TAGAAGTATATATGATGACATTTCTAGCCCAGGACTTGGATCAACACCTTTAACTTCAAGAAGACAGCCAAACAT  
TTCAGTAATGCAGAGTCCTCTTGTGGAGTTACATCTACTCCTGGAACAGGGCAAAGTATGTTTAGTCCAGCAAG  
TATCGGTGAGCCACGAAAGACGACATTATCTCCTGCCCAGTTGGATCCTTTTTTATACTCAAGGAGATTCTTTGAC  
TTCAGAAGATCACCTCGATGACTCTTGGGTGACTGTATTGGGTTTCTCAAGCATCTGCTTCTACATATTACT  
ACAATTTGCACAGTATGGGAATATCTTAAACATGTGATGTCTAATACAGGAAATTGGATGCATATTCGTTATCA  
ATCTAAACTGCAGGCTCGGAAAGCCTTAAGCAAAGATGGGAGGATTTTTGGAGAATCCATCATGATTGGTGTAAA  
ACCATGTATTGACAAAAGTGTTATGGAAAGCAGTGACAGATGTGCTTTATCATCTCCATCTTTAGCCTTTACACC  
ACCAATCAAAACTCTAGGTACACCAACACAACCTGGAAGTACTCCTAGGATTTCTACCATGAGACCTCTTGCTAC  
AGCATACAAAGCCTCTACTAGTGATTATCAGGTTATTTCTGACAGACAAACGCCAAAAAAGATGAAAGTCTTGT  
ATCCAAAGCAATGGAGTACATGTTTGGCTGGTAGTAGAACACCAAGAAGGAGGTTGCTACACTAAAACAGAGTTA  
GCAGAGTGCTGCTGGTTCCTTCGGTTAGTTATATAACTGTTCTGTCAGTATTGGATAGCTATCTCATACTTCTTT  
TAGAAAGAAGCCTTTTTTATTAAAGGATACAACCTATTTGTAGCTCGCACTTTAAAAGATGCTTGAGATACATTTT  
AAAGAAAACATAAAATCCCTGTAAATAGGATTTTGTGCTTTCTGTAACAGTGCATGCTTCAGCACAGAAAACCTCA  
GCATTGATTATTGTAAATTAAATAACTGAAATTGTGGTGAGACGTCATAGTCTTCATGAGAACGTGGGGGTGAAT  
TTCATGAAGGGGAACATAGTTATTTCTACCGACACAAATATTATAATTAGCAATTTGAATTATGGTCTTTTAAAT  
TTAGATAGTATTTAATATTTTAAATTATCCTTGTGTGTATATGTCCTGTCACAGAGTGTCTTGGTGTATTCTA  
AAACGAGCATTCTTTTAAAAAACCTAAAGTTTCTTGATAATAAACATTGTCAATGAT

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**FIGURE 921A**

GGCTGAGTTTTATGACGGGCCCCGGTGCTGAAGGGCAGGGAACAACCTTGATGGTGCTACTTTGAACTGCTTTTCTT  
TTCTCCTTTTTTGACAAAAGAGTCTCATGTCTGATATTTAGACATGATGAGCTTTGTGCAAAAGGGGAGCTGGCTA  
CTTCTCGCTCTGCTTCATCCCACTATTATTTTGGCACAACAGGAAGCTGTTGAAGGAGGATGTTCCCATCTTGGT  
CAGTCCTATGCGGATAGAGATGTCTGGAAGCCAGAACCATGCCAAATATGTGTCTGTGACTCAGGATCCGTTCTC  
TGCGATGACATAATATGTGACGATCAAGAATTAGACTGCCCCAACCCAGAAATTCCATTTGGAGAATGTTGTGCA  
GTTTGGCCACAGCCTCCAACCTGCTCCTACTCGCCCTCCTAATGGTCAAGGACCTCAAGGCCCCAAGGGAGATCCA  
GGCCCTCCTGGTATTCTCTGGGAGAAATGGTGACCTGGTATTCCAGGACAACCAGGGTCCCCCTGGTTCTCCTGGC  
CCCCCTGGAATCTGTGAATCATGCCCTACTGGTCTCAGAACTATTCTCCCCAGTATGATTTCATATGATGTCAAG  
TCTGGAGTAGCAGTAGGAGGACTCGCAGGCTATCCTGGACCAGCTGGCCCCCAGGCCCTCCCGGTCCCCCTGGT  
ACATCTGGTCATCCTGGTTCCTCTGGATCTCCAGGATACCAAGGACCCCTGGTGAACCTGGGCAAGCTGGTCCT  
TCAGGCCCTCCAGGACCTCCTGGTGCTATAGGTCCATCTGGTCTGCTGGAAAAGATGGAGAATCAGGTAGACCC  
GGACGACCTGGAGAGCGAGGATTGCCCTGGACCTCCAGGTATCAAAGGTCCAGCTGGGATACCTGGATTCCCTGGT  
ATGAAAGGACACAGAGGCTTCGATGGACGAAATGGAGAAAAGGGTGAAACAGGTGCTCCTGGATTAAAGGGTGAA  
AATGGTCTTCCAGGCGAAAATGGAGCTCCTGGACCCATGGGTCCAAGAGGGGGCTCCTGGTGAGCGAGGACGGCCA  
GGACTTCCTGGGGCTGCAGGTGCTCGGGGTAATGACGGTGCTCGAGGCAGTGATGGTCAACCAGGCCCTCCTGGT  
CCTCCTGGAACCTGCCGGATTCCCTGGATCCCCCTGGTGCTAAGGGTGAAAGTTGGACCTGCAGGGTCTCCTGGTTCA  
AATGGTGCCCTGGACAAAGAGGAGAACCTGGACCTCAGGGACACGCTGGTGCTCAAGGTCTCCTGGCCCTCCT  
GGGATTAATGGTAGTCTGGTGGTAAAGGCGAAATGGGTCCCCTGGCATTCTCCTGGAGCTCCTGGACTGATGGGA  
GCCCCGGGTCTCCAGGACCAGCCGGTGCTAATGGTGCTCCTGGACTGCGAGGTGGTGAGGTGAGCCTGGTAAG  
AATGGTGCCAAAGGAGAGCCCCGACCACGTGGTGAACGCGGTGAGGCTGGTATTCCAGGTGTTCCAGGAGCTAAA  
GGCGAAGATGGCAAGGATGGATCACCTGGAGAACCTGGTGCAAATGGGCTTCCAGGAGCTGCAGGAGAAAAGGGGT  
GCCCCCTGGGTTCCGAGGACCTGCTGGACCAAATGGCATCCAGGAGAAAAGGGTCTGCTGGAGAGCGTGGTGCT  
CCAGGCCCTGCAGGGCCAGAGGAGCTGCTGGAGAACCTGGCAGAGATGGCGTCCCTGGAGGTCCAGGAATGAGG  
GGCATGCCCGGAAGTCCAGGAGGACCAGGAAGTGATGGGAAACCAGGGCCTCCCGGAAGTCAAGGAGAAAAGTGGT  
CGACCAGGTCTCCTGGGCCATCTGGTCCCCGAGGTGAGCCTGGTGCTCATGGGCTTCCCCGGTCTAAAGGAAAT  
GATGGTGCTCCTGGTAAGAATGGAGAACGAGGTGGCCCTGGAGGACCTGGCCCTCAGGGTCTCCTGGAAAGAAT  
GGTGAAACTGGACCTCAAGGACCCCCAGGGCCTACTGGGCCTGGTGGTGACAAAGGAGACACAGGACCCCCCTGGT  
CCACAAGGATTACAAGGCTTGCTGGTACAGGTGGTCTCCAGGAGAAAATGGAAAACCTGGGGAACCAGGTCCA  
AAGGGTGATGCCGGTGCACCTGGAGCTCCAGGAGGCAAGGGTGATGCTGGTGCCCTGGTGAACGTGGACCTCCT  
GGATTGGCAGGGGCCCCAGGACTTAGAGGTGGAGCTGGTCCCCCTGGTCCCGAAGGAGGAAAGGGTGCTGCTGGT  
CCTCCTGGGCCACCTGGTGCTGCTGGTACTCCTGGTCTGCAAGGAATGCCTGGAGAAAAGAGGAGGTCTTGAAGT  
CCTGGTCCAAGGGTGACAAGGGTGAACCAGGCGGCCAGGTGCTGATGGTGCTCCAGGGAAGATGGCCAAGG  
GGTCTACTGGTCTATTGGTCTCCTGGCCAGCTGGCCAGCCTGGAGATAAGGGTGAAGGTGGTCCCCCGGA  
CTTCCAGGTATAGCTGGACCTCGTGGTAGCCCTGGTGAGAGAGGTGAAACTGGCCCTCCAGGACCTGCTGGTTTC  
CCTGGTGCTCCTGGACAGAATGGTGAACCTGGTGGTAAAGGAGAAAGAGGGGCTCCGGGTGAGAAAGGTGAAGGA  
GGCCCTCCTGGAGTTGCAGGACCCCCCTGGAGGTCTGGACCTGCTGGTCTCCTGGTCCCCAAGGTGTCAAAGGT  
GAACGTGGCAGTCTCTGGTGACCTGGTGCTGCTGGCTTCCCTGGTGCTCGTGGTCTTCTGGTCTCCTGGTAGT  
AATGGTAACCCAGGACCCCCAGGTCCCAGCGGTTCTCCAGGCAAGGATGGGCCCCCAGGTCTGCGGGTAACCT  
GGTGCTCCTGGCAGCCCTGGAGTGCTGGACCAAAAGGTGATGCTGGCCAACCAGGAGAGAAGGGATCGCCTGGT  
GCCCAGGGGCCACCAGGAGCTCCAGGCCCACTTGGGATTGCTGGGATCACTGGAGCACGGGGTCTTGCAGGACCA  
CCAGGCATGCCAGGTCTAGGGGAAGCCCTGGCCCTCAGGGTGTCAAGGGTGAAAGTGGGAAACCAGGAGCTAAC  
GGTCTCAGTGGAGAACGTGGTCCCCCTGGACCCAGGGTCTTCTGGTCTGGCTGGTACAGCTGGTGAACCTGGA  
AGAGATGGAAACCCTGGATCAGATGGTCTTCCAGGCCGAGATGGATCTCCTGGTGGCAAGGGTGATCGTGGTGAA  
AATGGCTCTCCTGGTGCCCTGGCGCTCCTGGTGATCCAGGCCACCTGGTCTGTGGTCCAGCTGGAAAGAGT  
GGTGACAGAGGAGAAAGTGGCCCTGCTGGCCCTGCTGGTGCTCCCGTCTGCTGGTTCCTGAGGTGCTCCTGGT  
CCTCAAGGCCACGTGGTGACAAAGGTGAACGTGGAGCTGCTGGCATCAAAGGACATCGAGGATTTC  
CCTGGTAATCCAGGTGCCCCAGGTTCTCCAGGCCCTGCTGGTGACAGGGTGCAATCGGCAGTCCAGGACCTGCA  
GGCCCCAGAGGACCTGTTGGACCCAGTGACCTCCTGGCAAAGATGGAACCAGTGACATCCAGGTCCCATTGGA

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**FIGURE 921B**

CCACCAGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCCAGGGCAACCAGGCCCT  
CCTGGACCTCCTGGTGCCCCCTGGTCCTTGCTGTGGTGGTGGTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAA  
AAAGCTGGCGGTTTTGCCCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTATGACT  
TCACTCAAGTCTGTAAATGGACAAATAGAAAGCCTCATTAGTCCTGATGGTTCTCGTAAAAACCCCGCTAGAAAC  
TGCAGAGACCTGAAATTCTGCCATCCTGAACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAA  
TTGGATGCTATCAAGGTATTCTGTAATATGGAACTGGGGAAACATGCATAAGTGCCAATCCTTTGAATGTTCCA  
CGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTT  
CAGTTTAGCTACGGCAATCCTGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCTTCGACTTCTCTCC  
AGCCGAGCTTCCCAGAACATCACATATCACTGCAAAAATAGCATTGCATACATGGATCAGGCCAGTGGAAATGTA  
AAGAAGGCCCTGAAGCTGATGGGGTCAAAATGAAGGTGAATTCAGGCTGAAGGAAATAGCAAATTCACCTACACA  
GTTCTGGAGGATGGTTGCACGAAACACACTGGGGAATGGAGCAAAACAGTCTTTGAATATCGAACACGCAAGGCT  
GTGAGACTACCTATTGTAGATATTGCACCCTATGACATTGGTGGTCTGATCAAGAATTTGGTGTGGACGTTGGC  
CCTGTTTGCTTTTTATTAACCAAACCTCTATCTGAAATCCCAACAAAAAAATTTAACTCCATATGTGTTCCTCTT  
GTTCTAATCTTGTCACCAGTGCAAGTGACCGACAAAATTCAGTTATTTATTTCCAAAATGTTTGAAACAGTA  
TAATTTGACAAAGAAAAATGATACTTCTCTTTTTTTTGCTGTTCCACCAAATACAATTCAAATGCTTTTTTGTTTA  
TTTTTTTACCAATTCCAATTTCAAATGTCTCAATGGTGCTATAATAAATAAACTTCAACACTCTTTATGATAAC  
AACACTGTGTTATATTCTTTGAATCCTAGCCCATCTGCAGAGCAATGACTGTGCTCACCAGTAAAGATAACCTT  
TCTTCTGAAATAGTCAAATACGAAATTAGAAAAGCCCTCCCTATTTTAACTACCTCAACTGGTCAGAAACACAG  
ATTGTATTCTATGAGTCCCAGAAGATGAAAAAATTTTATACGTTGATAAACTTATAAATTTTATTGATTAAATC  
TCCTGGAAGATTGGTTTAAAAAGAAAAGTGTAATGCAAGAATTTAAAGAAATATTTTAAAGCCACAATTATTTT  
AATATTGGATATCAACTGCTTGTAAGGTGCTCCTCTTTTTTCTTGTCATTGCTGGTCAAGATTACTAATATTTG  
GGAAGGCTTTAAAGACGCATGTTATGGTGCTAATGTACTTTCACTTTTAACTCTAGATCAGAATTGTTGACTTG  
CATTCAGAACATAAATGCACAAAATCTGTACATGTCTCCCATCAGAAAGATTCATTGGCATGCCACAGGGATTCT  
CCTCCTTCATCCTGTAAAGGTCAACAATAAAACCAAATTATGGGGCTGCTTTTGTACACTAGCATAGAGAATG  
TGTTGAAATTTAACTTTGTAAGCTTGTATGTGGTGTGATCTTTTTTTTTCTTACAGACACCCATAATAAAATA  
TCATATTAAAAATTC

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**FIGURE 922**

MMSFVQKGSWLLLALLHPTIILAQQEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSGSVLCDDIICDDQELDCP  
NPEIPFGECCAVCPQPPTAPTRPPNGQGPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPPGICESCPTGPN  
YSPQYDSYDVKSGVAVGGLAGYPGPAGPPGPPGPPGTSGHPGSPGSPGYQGPPEPGQAGPSGPPGPPGAIGPSG  
PAGKDGESGRPGRPGERGLPGGPGIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGENGAPGPMG  
PRGAPGERGRPGLPGAAGARGNDGARGSDGQGPDPGPPGTAGFPSPGAKGEVGPAGSPGSPGNGAPGQRGEPGPQG  
HAGAQQPPGPPGINGSPPGGKGEMGPAGIPGAPGLMGARGPPGPAGANGAPGLRGGAGEPGKNGAKGEFGPRGERG  
EAGIPGVPGAKGEDGKDGSPGEPGANGLPGAAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGAAGEPG  
RDGVPPGGPGMRGMPGSPGGPGSDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGFPGPKGNDGAPGKNGERGGPG  
GPGPQGPFGKNGETGPQGPFGTGPGGDKGDTGPPGPQGLQGLPGTGGPPGENGKPGEPGPKGDAGAPGAPGGKG  
DAGAPGERGPPGLAGAPGLRGGAGFPPEGGKGAAGPPGPPGAAGTPGLQGMPGERGGLGSPGPKGDKGEPGGPG  
ADGVPGKDGPRGPTGPIGPPGPAGQPGDKGEGGAPGLPGIAGPRGSPGERGETGPPGPAGFPAGPQNGEPGGKG  
ERGAPGEKGEAGPPGVAGPPGGSGFAGPPGPGQGVKGERGSPGGPGAAGFPARGLPGPPGSNGNPGPPGPSGSPG  
KDGPPGPAGNTGAPGSPGVSGPKGDAGQPGKEKSGPAQGPAGPGLGIAGITGARGLAGPPGMPGPRGSPGPQG  
VKGESGKPGANGLSGERGPPGPQGLPGLAGTAGEPGRDGNPGSDGLPGRDGSPGGKGDRENGSPGAPGAPGHPG  
PPGPVGPAGKSGDRGESGPAGPAGAPGPAGSRGAPGPQGPGRGDKGETGERGAAGIKGHRGFPGNPGAPGSPGPAG  
QQGAIGSPGPAGPRGPVGPSPGPPGKDGTSGHFGPIGPPGPRGNRGERGSEGSFGHPGQPGPPGPPGAPGPCCGGV  
GAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISPDGSRKNFARNCRDLKFCHPELKSG  
EYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVPRKHWWTDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVL  
DVQLAFLRLSSRASQNTIYHCKNSIAYMDQASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWS  
KTVFEYRTRKAVRLPIVDIAPYDIGGPDQEFGVDVGPVCFI

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**FIGURE 923**

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC  
TTTGCCTTTTCCAACCTTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAAATCCCTGGGCCCTTT  
TCTTTTGTCTTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTAGAGGTGCTATCTCC  
AGTTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGG  
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC  
TGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG  
TGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT  
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC  
TGGTGGTACAGAATGTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC  
TGACCATGTACCATGGATGGGTCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAATATTGCAAATTTGG  
CCAGTACTGCTACTGCAATCACAATCCAAAGGATTGGATTGTTGTTGTTGTCAGGAGAAGACAGAAGCAAACCTAG  
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCCATGGCTGTGGCCAGATTA  
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGGGGATGGAACCTGGTATCCATGTGCGTGGAGTACG  
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAAT  
TGAAACAGCTGAATTTACACAAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATCTAATGGGTGTGAAAGACT  
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC  
GAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTTCTTTATATGACTG  
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGAAGTGGTTCATCCTCAGTATTTTGA  
TGGGAGCATCAGCTATAACTGGAATAATGGGAAGTGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC  
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTTCTGTTTGATCTTGTGTGTGATCTCTGTATTTCATGCCTGGAA  
GCCCCCTGGACTTGTCCGTTTTCTCCTTTTGAAGATATCCGATCAAGGTTTCAATTCAAGGAGAGTCAATTACACCTA  
CCAAGATACCTGAAATTACAACCTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA  
GTCTGAATCTGTGCCCATAACTCTGTCTGCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT  
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC  
AGAACTCCATGAACATCTTCTTGATCTTCTGCATTTTCATCATGGTTCATCCTGGCTCCAAATCCTGAAGCTTTTG  
GCTTGCTCGTATTGATTTTCACTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCCAAATACTC  
TGGGAAACAAGCTCTTTGCTTGGGTCCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG  
TTTGAAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAAT  
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC  
CTAAGTCAGCAGAAATTAAGTATTAATTTCCCTTATGTTGAGGCATGGAAAAAAATTTGAAAAAGAAAACTCA  
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG  
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTT  
TGCAAAACTCACTCTTGTTCAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTTTAAAAACAAATTTCTC  
AAGTATGAAGACTAAATTTTGATAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG  
TGGAAAAACAAACACTTAACTAGAATTCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT  
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT  
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT  
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG  
TGTGTAGAACATGAGGGTGTAAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG  
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATAATTTTTTACTGTTTTATACCCAGAAGTTATTT  
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAA  
GTTTGTATATATTTTTAAAAAATTGTTTTTAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA  
ACCGTTTATATGCACCTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTTATCCTTGGAGTTTAACTCT  
TTGCTTCATCTTTCTACAGTATGACATAATGATTGTGCTATGTTGTAAATCTTTGTAAAAAATTTCTATATAAAA  
ATATTTTGAAATCTTAAAAAATAAAAAA



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**FIGURE 924**

MTRAGDHNRRQGCCGSLADYLTSAKFLLYLGHSLSTWGD RMWHFAVSVFLVELYGN SLLLLTAVYGLVVAGSVLVL  
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTAT  
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK  
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGVV  
SYYNQPFVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLI  
SGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPEV  
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL  
ISVSFVAMGHIMYFRFAQNTLG NKLFACGPDAKEVRKENQANTSVV

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**FIGURE 925**

TTTTGTGAAGAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG  
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTCTCCCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTA  
CCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACCTCCGTGTATTATTGGG  
AATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGC  
TCTGTTTATAAGGGCTTTGCCTTCTTTTCACTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGAT  
GGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGT  
GTGAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGAAGTGGATTGTGACTTTCAACGGGACTATTATGAT  
AGGATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAG  
CGTGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAG  
TCTGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCT  
TTCTTGAAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAA  
GAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGAC  
TCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAATGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGG  
ATGATGAAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATA  
GTGGGGTTTAGAAATCTTATCCCATTTTCTTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCT  
CTCCCTAGTATCTTCAGCACATGCTCAGTGTTCCTTTCCCATCCTTGTCTTCCCATGTTTCTTAATTAATTCATA  
TTGCCCCGCGCCTAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGTCTTACCCTGTAATTTT  
TGCTTTTAATTTTGATACCTCTTTATGACTTAACAATAAAATGATGTATGGTTTTTATCAACTGTCTCCAAAAT  
AATCTCTTGTATGCAGGGAGTACAGTTCTTTTATTTCATACATAAGTTTCAGTAGTTGCTTCCCTAACTGCAAAG  
GCAATCTCATTTAGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCCCACATTAGT  
GTGCTGTGTGGGGCAGTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCC  
TCTAGAAAAATAATTAGTGTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTATTTTTGTGAACA  
GCCTGATGTTTTGGGACCTTTTTCTCCTCAAATAAACAAGTCCTTATTAAACCAGG

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**FIGURE 926**

GCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAGAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCC  
TCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAG  
ATCCTCGTTCCATGAACCTCCCGTGTATTCAATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGG  
CAATCTTTTCGAAGTATGGCAAATTTGTGGGCTGCTCTGTTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATG  
AGAGAAATGCCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGG  
CTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGACCTTCAGGCCATTAA  
GAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTTTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAG  
CAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAAGAGGAGCAGAGCAGCAGCTCCGTGAAGAAAAGATGAGAC  
TAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAA  
TGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGGATGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAAA  
TCTTATCCCATTTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTACCAGATCCTCTCCCCTAGTATCT  
TCAGCACATGCTCACTGTTTTCCCATCCTTGTCTTCCCATGTTTCAATTAATTAATTCATATTGCCCCGCGCCTA  
GTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGT

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**FIGURE 927**

GAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACC  
ATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTCATTGGGAA  
TCTCAACACTCTTGTTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGCTC  
TGTTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGATGG  
CAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGT  
GAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGAAGTTGGATTGTGACTTTCAACGGGACTATTATGATAG  
GATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCG  
TGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTC  
TGGAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAAACAAAAAGTGGATTCTTT  
CCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCACTGGAGTTGATCAAGGATGATGAAAAAGA  
GGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAA  
ATCTTATCCCATTTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCTCTCCCTAGTATC  
TTCAGCACATGCTCACTGTTTTCCCATCCTTGTCTTCCCATGTTTCATTAATTAATTCATATTGCCCCGCGCCT  
AGTCCCATTTTTCACTTCCTTTGACGCTCCTAGTAGTTTT

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**FIGURE 928**

ATCTTTTAGAGAAATCTCGGGTTGTTAAACAGCCAAGAGGTGAAAGAAACTTCCATGTGTTCTATCAGCTGCTCT  
CTGGTGCCTCTGAAGAGCTCCTCAATAAACTTAAGCTTGAGAGGGATTTACAGCAGGTATAACTACCTGAGTCTGG  
ATTTCGGCCAAAGTGAATGGAGTGGATGATGCAGCAAATTTTAGAACCGTGCGGAATGCCATGCAGATTGTGGGCT  
TTATGGATCATGAAGCTGAGTCTGTCTTGGCGGTGGTGGCAGCAGTGTGAAACTGGGGAACATTGAGTTCAAGC  
CCGAATCTCGAGTGAATGGTCTAGATGAAAGCAAATCAAAGATAAAAATGAGTTAAAAGAAATTTGTGAATTGA  
CCGGCATTGATCAATCAGTTCTAGAACGAGCATTAGTTTCCGAACAGTTGAGGCCAAAACAGGAGAAAGTTTCAA  
CTACACTGAATGTGGCTCAGGCTTATTATGCCCCGTGATGCTCTGGCTAAAAACCTCTACAGCAGGTTGTTTTCAT  
GGTTGGTAAATCGAATCAATGAAAGCATTAAAGGCACAAACAAAAGTGAGAAAGAAGGTCATGGGTGTTCTGGACA  
TTTATGGCTTTGAGATTTTCGAGGACAACAGCTTTGAGCAGTTTATTATTAATTATTGTAACGAAAAGCTGCAAC  
AAATCTTCATTGAACCTACTCTTAAAGAAGAGCAGGAGGAGTATATACGGGAGGATATAGAATGGACTCACATTG  
ACTACTTCAATAATGCTATCATTTGTGACCTAATAGAAAATAACACAAATGGAATCCTGGCCATGCTGGATGAAG  
AGTGCCTCAGACCTGGCACAGTCACTGATGAGACCTTCTTAGAAAAGCTGAACCAAGTATGTGCCACCCACCAGC  
ATTTTGAGAGCAGGATGAGCAAGTGCTCTCGGTTCTCAATGACACGTCTCTGCCTCACAGCTGCTTCAGGATCC  
AGCATTATGCTGGAAGGTGCTGTACCAGGTGGAAGGATTTCGTTGACAAAAACAATGACCTTCTCTATCGAGACC  
TGTCCTCAAGCCATGTGGAAGGCCAGCCATGCCCTCATCAAGTCTTTGTTCCCCGAAGGGAATCCCGCCAAGATCA  
ACCTGAAAAGGCCTCCTACAGCAGGCTCACAGTTCAAGGCATCCGTGGCCACTCTGATGAAAAACCTACAGACCA  
AGAACCCAACTATATTAGGTGTATCAAACCGAATGATAAAAAAGCAGCACACATCTTCAACGAGGCTCTAGTGT  
GTCATCAGATCAGGTACCTGGGGCTTTTGGAGAACGTCAGGTGCGGAGGGCAGGCTACGCCTTCAGGCAGGCCT  
ATGAACCTTGCTAGAAAAGATACAAAATGCTTTGTAAACAAACATGGCCTCATTGGAAGGACCAGCCAGGTCTG  
GTGTGGAGGTCTATTTAATGAATTAGAAATTCCTGGAAGAATACTCTTTGGTAGATCAAAGATATTCATCC  
GAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGACTTGGCCACTCTCATTGAGA  
AGATATATCGGGGGTGGAAATGCCGCACACACTTCTGCTAATGAAAAAAGCCAAATTGTGATTGCCGCTGGT  
ACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCCGCCTTAGTAATTCAGTCTTATATCCGGG  
GTTGGAAGGCICGAAAAATTCTGCGGGAAGTGAAGCATCAAAGCGCTGTAAGGAAGCAGTCACGACCATTGCTG  
CATATTGGCATGGGACCCAGGCTCGAAGGGAATTGAAACGCTTGAAGGAGGAGGCTAGGCGTAAGCATGCAGTTG  
CTGTCAATTTGGGCTTACTGGCTTGGACTGAAGGTACGTAGAGAATACAGGAAATTTCTCAGAGCCAATGCTGGAA  
AGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAATGAAAAATAAGATGCCTTCCT  
TATCTCCAATAGACAAGAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCTAAAAAGGA  
TTTTCCACTTGTGGAGGTGTAAAAAATACAGGGACCAATTCACAGACCAGCAGAACTTATTTATGAAGAGAAAC  
TAGAAGCCAGTGAACCTTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTGGGCAACCATTCCAAGGGGCTT  
ACCTGGAAATCAACAAGAACCCCAAGTATAAGAACTCAAAGATGCCATTGAAGAAAAGATCATCATTGCTGAAG  
TCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCTCTTAACAAACAATAATCTCCTTC  
TTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCATTGGTGGATGTGACCAAGGTATCAATGAGCTCAC  
AAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTTCTCTTCAGCA  
GTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACCTCTCAGCCAAACCAACAGAAGCTCAATATTG  
AGATTTCGATGAGTTCTTGGTACAGTTCAGACAGGACAAAGTATGTGTGAAGTTTATTAGGAACCTGTAGTAT  
GATATTTAACAATATAGGCTTCAAGAAGGGCTGGTCTTAAGAGGGGGCAGAAATGAATGACCAGGTTAAATCCCT  
CTACATGTGGTTTCTGTTTG

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**FIGURE 929**

AGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGT  
ACCTGCTCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCT  
AAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAA  
TAGAAAGAACCAGCTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTTTGGAGAAGAGGGATTGACCCTGAA  
TCTTGAAGACGTTACGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTT  
AAAAGGAAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAG  
TGAATATGAAAAGGAAAAAAGTGAATGAACGGCTTGCAAACTTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGG  
GACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGA  
AGAAGGCATTGTTTTGGGAGGGGGTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAA  
TGAAGATCAAAAAAATTGGTATAGAAATTATTAAAAGAACACTCAAAATTCAGCAATGACCATTGCTAAGAATGC  
AGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCCTCAGAAGTTGGTTATGATGCTATGGCTGG  
AGATTTTGTGAATATGGTGGAAAAAGGAATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGC  
TGGTGTGGCCTCTCTGTTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAAGGACCCTGGAAT  
GGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTAT  
TAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTCCCTACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAA  
GAAAAGGCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGC  
TGTCAATTGTCCATGCCTACAGATAATTTATTTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGG  
TACAAGAGCCATGTACAGTGTACTGCTTTCAACTTAAATCACTGAGGCATTTTTACTACTATTCTGTAAAATC  
AGGATTTTAGTGCTTGCCACCACCAGATGAGAAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACA  
AAGTAGAGAAGTATCCAATTATGTGACAACCTTTGTGTAATAAAAAATTTGTTTAA

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**FIGURE 930**

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTAATGGCAGGACAAGCGTTTAGAAAGTTTCTTCCAC  
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAAACTGTAACCAAAGGAGGCATTATGCTTCCAGAAAAAT  
CTCAAGGAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC  
CAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG  
ATTATTTCTTATTTAGAGATGGTGACATTCCTTGAAAGTACGTAGACTGAAATAAGTCACTATTGAAATGGCATC  
AACATGATGCTGCCCATTCCACTGAAGTTCTGAAATCTTTTCGTCATGTAAATAATTCCATATTTCTCTTTTATA  
ATAAACTAATGATACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGTAATGATATAAACACTTCCAAATA  
AAAAATATGTAAAT

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**FIGURE 931**

MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPE  
YGGTKVVLDDKDYFLFRDGDILGKYVD



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**FIGURE 932**

GATTTGACCCTTGAGCCGTAGGGAGCGCGGCATTTTCTGGAAAGTTCTGGAACCGAGCGAGGCCCGGGAAGTAGA  
CTAAGCCGGCCGGAGAGGGCTGAGCGCGCTAGCACACCCTGCGCGGAAATGCTTCGGTTACCCACAGTCTTTCGC  
CAGATGAGACCGGTGTCCAGGGTACTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCA  
GATGCCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGA  
AGAACAGTGATTATTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATT  
GACTTAAAAGATAAATACAAAAACATTGGAGCTAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCT  
GGGGATGGCACTACCACTGCTACTGTACTGGCACGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGT  
GCTAATCCAGTGGAATCAGGAGAGGTAGGAATGTCTGTTGTCACCACAGTGTCTAACTTCAGTGTGCTTTAA  
GGCATTGATTCCTTGGACCTAAGGAAAGTGTTAACTTGAGGAAATTAATCCTTCTCTCATTCTCCTCTTGGCCT  
GGAGAAATCTTAACTGGGTTTTCTTTAGCAAGCTTGGCTGT

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**FIGURE 933**

TGGAAAGAGTGGAAACGAGAAAAACCTTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTACCAAATATGA  
ACCAGCTGGCATCCCTGGGGAAAACCAACGAACAGTCTCCTCAAGCCAAATTCACCACAGTACTCCAATCCGAA  
ACCAAGTGCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTTCTCCCCAGCTTAGTCCACAACCTTGTAAGGC  
AACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCTGGCTCACCAGCATCCTCAAG  
CCATCAACCAGCAGTTCTGAACCATCCACCCATCCCCAGAGCAGTTAAGCCAGAGCCAACCAACTCTTCCGTGG  
AAGTCTCTCCAGATATCTACCAGCAAGTCAGAGATGAGCTGAAGAGGGGCCAGTGTGTCCCAAGCTGTCTTTGCAA  
GAGTGGCATTCAACCGCACACAGGTACAATTAGCATTAAACACTGTAAATTAACAGTAATACTGGGGACAGAATTG  
AGATAGGTTATAATTATTTTATCTCTTTAAAAAGCTTTATGGATCTCAGGACATAGAATTAGATTAAATTAATA  
TCCTTAGTTAATGAAACGCTATTACCATTGATCCATGCATGACCATGATTAATTAATACTAATTGATTAAATTTGAT  
GAGGTAATGGACATCTTTGAACCCAACATGCAACTCAGGACCCCAAATGTTACTAATGACTTGGGTATGTACTCT  
CTCATCCTCTCCATTTACTGTTTGCAGATGTAACCTGATCTTGAATTTTGTGATTATCAGTCTCTTGCCATTTT  
TAAAAACAAATTATAAACTATGCATGCCAGACAATCTATTTTTTTCCCTTGGTTTTGAACGTTATAAAAGAAA  
TAAATTTATGTTTTATAATTTTATAAGTAAAGTTTTATTTAAAAATTTATAAAAAATCCTTCAAAACATAAAAGTT  
AGATTTAAGATATTGATAAAATGATAATGGATAGTTTACTTTTATTTTTAATGTTTGAGAGAATTATATGCCAAT  
TATAACACTAAATGTTGAAAATGTAAACAGTTAATTCACACGCTTATTTTTATTGAGGGTGCTTATATGTAAGA  
CATTCTTTTCTGCTAGTAGTTCTTAAACTGGAGTGTGCATCAGAATCACCTGGAGGGCTGTGAAACACAGACTGC  
TGGGCCTCATCCCATAGTTTCTGATTGAGTAAGTCTGAGGTTGGACTCAGAAATGGACATTTCTAACAAGATCCC  
AGGTGATTATGATGGTACTGATCCGGGGCCGCATGTTGAGAAAACTTACCTAGCCCTTATATGAGTAAGAACAA  
AGCAGATGTGCATAATCTCGGGGAGCTAACGATCTAGTGGTGAAACCAGGTAACCAGATAATTAGAGTAAATG  
TGAAGTGTTATGAGTAATGTTGGAGAGTGTAAGCAATAGTTGTGGTGGAGGTTTCATGGTGAGCTGGAGGTGAGGA  
ATACCTCCAGGAGAATGAATATGGTAAGCCTTCAAGAAAACAGTAGATTAAAATTTACGACCCCTCGTAAATGCA  
AGGCAGGAAGCTAAGCTCTATGTGGGTGCAAGAGGAAAAAGATAATGGGCAAGCACATATGTAAACAACACTCT  
AGAGTATTAGGTTGTCAATGGGTTAGACCTTGAAGGATTAATAAAGTACAGCAGGCAAAGATGATGAAGAAGAAG  
ATTATTATTTTAAAGGTAAAGACATTCATAGGAAAGATGTTGAGTTAAAAAATGCAGGAATAATTTGAAGACATAA  
AACAACTGATTTCTGAGAAAAACCTGTGAACGTACAGAATGTAGGAATGCTTTTCAATTTATCTGATACCTGTTCA  
GAGACACATGATAACACACGCTGTAGATGGACCTTACAAATGAAAGAAAGCATGCTGGATTGAAACCTCAATAAT  
TTGGAAAATACAGGAATGTTTCCAAATTTAATGATTACTTCAGAAGTTAAGGGGCTGGGCACAGTGGCTCATGTC  
TGTAAGTCTTAGCACTTTGGGAGGCCAAGGTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGGCAAG  
ATGGTAAACACCATCTCTACTAAAAACAGAACAAAAACAAAAAATTAGCTGGGCGTGGTGATGCGTGCCGTGTAGT  
CTCAGCTACTCAGGAGGCTGAGGCAGAAGAATCCCTTGAACCCAGGAGGCGGAGGCTGCAGTGAGCCGAGATCAT  
GCCACTGCACTCCAGCCTGAGTGAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAA

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**FIGURE 934**

GAGAGGAGACACCGCCGACAGTTGCCGGTACATCGGGGATTCTTGGCTCTTTCTCTTCGCTTAAATTCGGGTGT  
CTTTTATGAATAATCAAAAAGCAGCAAAAAGCCAACGCTATCAGGCCAGCGTTTTAAAACTAGAAAAAGAGATGAA  
AAGAGAGGTTTTGACCCCTACTCAGTTTTCAAGACTGTATTATTCAAGGCTTAACCTGAAACCGGTACTGATTGGAAG  
CAGTAGCTAAGTTTTCTTGATGCTTCTGGAGCAAAACTTGATTACCGTCGATATGCAGAAACACTCTTTGACATT  
TGGTGGCTGGTGGAAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGTCTGCGTGTTG  
CAGCCCAAGAAGATCTAGAGACCATGCAAGCATTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACC  
TGGAGAAAGGTTTTGAAGATGAAGTAAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACA  
AGCTAGCTATGTTGACTGGTGTTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATG  
AAAATTTGGTTAAAGAAGGAGTTTTCAGCAGCTTTTGCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATA  
TCAATGCAGTAGCTGCAAGTCTTCGGAAAGTCAGCATGGATAACAGACTGATGGAACTCTTTCTCGCCAATAAGC  
AAAGTGTTGAACACTTCACAAAAATATTTTACTGAGGCAGGCTTGAAAGAGCTTTCAGAATATGTTGGAATCAGC  
AAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGAAGCTTCAAGAACAGATGTCCCGTGGTGATCCATTTAAGGATA  
TAATTTTATATGTCAAGGAGGAGATGAAAAAACAACATCCCAGAGCCAGTTGTCTATCGGAATAGTCTGGTCAA  
GTGTAATGAGCACTGTGGAAATGGAACAAAAAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAAT  
ACAGCCCTCTACTTGCTGCCTTTACTACTCAAGGTCAGTCTGAGCTGACTCTGTTACTGAAGATTTCAGGAGTATT  
GCTATGACAACATTCATTTTCATGAAAGCCTTCCAGAAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCCTGAGCG  
AGGAGCCCATTTTGAAGTGGTATAAAGATGCACATGTTGCAAGGGGAAGAGTGTTTTCTTGAGCAAAATGAAAA  
AGTTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATCTGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAC  
TACACCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAATGTCATGTCTCATGTGTCTCGTTCTTACATCTTCCT  
ACCTCCCTGTATCAAGCATGATATAAGGGCTTTTCATGGCAAATTTTATTTTAACTGTTTTCTATGGTTGCTGGAAA  
TGTTGGGTTTTAGTTTTCTAAAACCATGTTTTAAGTAGCTACAGGAGCTATAGATTGAATCTAATGTTGCATTAGT  
CTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATGTAATTTAAGGCCCTTCCACAATGAACAGTTC  
ACTTTATTCCTGGGTTTTCTATAAACAGTTTTTAAGGATATGATTTGGTTAAAAAATAATTTGTTATAAAAAATTC  
TGTTTGCAAATTAACCTGGAAGAGTATCCAGAGTCTCAAAAGGCAATGATTTGTGAGATAATATGGCATGCCCGG  
AGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAACATGAATCTTGAGTACGTGGACCAT  
TGCTTGCAATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG  
AATTGTTTGGTCTCTGGTTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAAAAGTTTAGGAAATCATAATG  
TGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTCCCTTGAGAAACTTCTGCATTTAGTTTCTATCTTCC  
AGGCAAAACAAATGGGTATTTCTTTTCATACAACCATTTTCAAATGAACCTTAGAAAAGTCTTAACATTTAAGGTA  
TTTTATGCACAGAATACACTTAGATTGATAGGAAAGAATCGTAATGGAGTTTGAGTAAAGAAAATGACTSATGT  
ACTAAACCCAGTAAAAATTTGTTGAAAATGTTAAAGGTCAGCATGTTCTAATTGGGAATCTAGATATAGCTTAGAT  
TTCTTATTGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATATTCTACTCGGTACATACTG  
GACTGGCTTCGTTCTCTTAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAAACATACCCTAGTTGCCGTTTT  
TTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTTAAATGGCTGCCTTTTCATTTTCAT  
CTTTCTTGCTGCTACCCATCTAIGTATGTAGTCATTGGGGGGAAAAATGTAGCCACATTTTTTATGGGAAGACTT  
TGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAAACTAGCCTGGAATAATGCCACCAGAGACTGAGTG  
GAAATCGCCCCCTTTTGAAGGTGCCATTCTTATGAGCCAAAAGTTTGTCAATTTAAAAGTTCATTTTGAGGGAATAA  
CATGTAATATAAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGA  
ATTTGTTAAAATGAGTAACTTTGATAAAGTTTTTCATGCACAGGCAAAATGTATTCACTAGATTTCTACGTAGTG  
ATCTGCTTTTACTTTGTAATTTGTAGTTCTCAAAAGACTTTTTTTTTAAAAAATAAAGTCCATACTTACACTT

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**FIGURE 935**

MNNQKQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAKLDYRRYAETLFDILV  
AGGMLAPGGTLADDMMRDVCVFAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDVKKLLLFLKGFSESERNKL  
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS  
VEHFTKYFTEAGLKEELSEYVRNQQTIGARKELQKELQEQMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSV  
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE  
PILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEEESESEAEED

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**FIGURE 936**

ACGCAGAGAAGTTTCCGGGACTGAACTTGAACCTTACCTGATTTCTGTATGTTGTCATCTTGCGTACGCCAGT  
CCCCACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATTCTTCCCGTTCCCTTCATGGATTGGAAGGCTCTCCT  
TTCTTCCCTTGAATGACTTTGCATCCCTCTCGTTTGCTGAGAGTTGGGACAATGTTGGATTACTGGTGGAACCAAG  
CCCACCACATACTGTAAATACACTCTTCCCTGACCAATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAA  
GAAGGCAGACCTCATTTCTCTCCTACCATCCGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAA  
GGAGCGCCTGGTGATCCGGGCTCTGGGAGAACAGAGTCGGTATCTACTCTCCTCATAACAGCCTATGATGCTGCGCC  
CCAGGGCGTCAACAACCTGGTTGGCTAAAGGGCTTGGAGCTTGTACCTCCAGGCCCATACATCCTTCCAAAGCTCC  
CAACTACCCTACAGAGGGAAACCACCGAGTAGAATTCAACGTAACTACACCCAAGACCTGGACAAAGTCATGTC  
TGCAGTGAAAGGAATTGACGGTGTCTTCTGTCACTTCTTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGAT  
TAATCTGAATTGTACTCAGAAGGCTTTGATGCAGGTGGTAGATTTTCTTCCCGGAACAAACAACTTTATCAGAA  
GACGGAATTTCTGTCACTGGAGAAGCCTTTGCTTCTACATACTGGAATGGGACGGTTATGCACACTGGATGAATC  
TGTCTCCCTGGCAACCATGATTGATCGAATAAAAAGACACCTAAAACCTATCTCATATTCGCTTAGCCCTTGGGGT  
GGGGAGAACCTTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCAGCGTTCTGCAGGGTGT  
TGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATGCTGCTTCCCAAGGAATAAATGT  
CATCCTCTGTGAACACAGCAACACTGAACGAGGCTTTCTTTCTGACCTTCGAGATATGCTGGATTCTCACTTGGA  
GAATAAGATAAATATTATCCTATCAGAGACTGACAGGGACCCTCTTCAGGTGGTATAATTGCAGAAACATCAGGA  
TAACACATTCTACAAATCAGCTGGATGCCAACTTAAATTTGTAACATGAGTCAGTGGGACTGGTGTGCTTCCAGA  
GAGTGTCTTCGAGGGTATCATCATTTCCGGTTTGTAAATCTTATTCACCAAATGTTCTATCGCTCGTAAGGTAAA  
ACTGTAATATAACTACCATATTAAATAACAAATGTTTATTATAAACTCTAGGAAAGATTGAATAAAATCTGTTTA  
CTTAACATTC

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**FIGURE 937**

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPPHTVNTLFLTNDLTE  
EVMEEVLQKKADLILSYHPPIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNNWLAKGLGACTS  
RPIHPSKAPNYPTTEGNHRVEFNVNYTQDLKVMASVKGIDGVSVTSFSARTGNEEQTRINLNCTQKALMQVVDFL  
SRNKQLYQKTEILSLEKPLLLHTGMGRCLTLDESVSLATMIDRIKRHLKLSHIRLALGVGRTLESQVKVVALCAG  
SGSSVLQGV EADLYLTGEMSHHDTLDAASQGINVILCEHSNTERGFLSDLRDMLDSHLENKINIILSETDRDPLQ  
VV

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**FIGURE 938**

CTCCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCCTGCCGTCATGCTCTAAGTCA  
GAGTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCGATGAGAGC  
CTGAGGAGCCATTTTGAGCAACGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCC  
ACGGGCTTTGGGTTTGTACATATGCCACTGTGAAGGAGGTGGAGGCAGCTATGAATGCAAGGCCACAGAAGGTG  
GATGGAAGAGTCGTGGAACCAAGAGAGCTGTCTCGAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTG  
AAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA  
AAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGGAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGAT  
GACCATGACTCCGTGGATAAGATTGTCATTGAGAAATACCACACTGTGAATGGCCACAACCTGTGAAGTTAGAAAA  
GCCCTGTCAAAGCAAGAGATGACTAGTGCTTCATCTAGCCAAAGAGGTGGAAGTGGTTCTGGAACTTTGGTGGT  
GGTCGTGGAGGTGGTTTCAGTGGGAATGACAACCTTTGGTCATGGAAGAACTTCAGTGGTCATGGTGGCTTTGGT  
GGCAGCCGTGGTGGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCCATTTT  
GGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAAAATCAGTCTTCAAATTTTGGACCCGTGAAGGGAGGA  
AATTTTGGAGGCAGAACTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAACTAAGGTGGC  
TATGGCGGTTCCAGCAGTAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAATTAGGAAACAAAGCTTAGCAGGAG  
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCA  
GGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTAT  
TTGTGACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTT  
AATGTAGATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATG  
TCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAG  
TTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCTATTGT  
CTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAGGGATTACCCA  
AGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATG  
GTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACGATTTAA  
TTCTCTGGAA

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**FIGURE 939**

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQRGTLTDCVVMRDPNTKCSTGFGFVTYATVKEVEAAMNAR  
PQKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMTSASSSQGRSGSGNFGGGRGGGFSGNDNFGHGRNFSGH  
GGFGGSRGGGGYDGS GDGYNGFGNDGSHFGGGGSYNDFGNYKNQSSNFGPVGKGNFGGRSSGPYGGGGQYFAKPR  
NRWLWRFQQVAVAMAVAEDF



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**FIGURE 940**

GAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGTGGGAAGGGAGAAGGATTTGTAAACCCCGGAGCG  
AGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCCACCGTCATCATGTCTGACCAGGAG  
GCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATTGGACAGGAT  
AGCAGTGAGATTCACCTCAAAGTGAAAATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAAAGACAG  
GGTGTTCGAATGAATTCACCTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTG  
GGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTCATTCAACAGTTTAGATATTCTTT  
TTATTTTTTTTCTTTCCCTCAATCCTTTTTTATTTTTAAAAATAGTTCTTTTGTAATGTGGTGTTCAAAACGGA  
ATTGTTATTCATTATTGTTTGTTCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACC

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**FIGURE 941**

ATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTT  
GATAGTTTATGGAAAGAAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT  
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAAGTT  
CTGAAGAAAATAGTAAAAAGAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAA  
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACCTTATGAGAGGAATTCGTTACAAAATGGATGGA  
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA  
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTCAAGCAATTTCCCTGTTAGATGACTTGGATAAAGAA  
CTAAACAACCTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTGAATTAGGAAAAATATTTTCAGAT  
AATTTAACATACTGCAAGTGTGTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG  
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT  
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA  
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT  
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAAGATTCTTGGAGCTGAAAAGGCACTT  
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTTATCATGCTTCACTCGTGGGCCAGACA  
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT  
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATAGAGGCCAGGTTGAGAACTTTGGAAGAC  
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG  
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA  
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAA  
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAAAGGGGTAAAAAGAAACACATTAAAGGAAGAACCA  
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAAGAAAAAAGAGA  
GAGAACGAGGATTAA

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**FIGURE 942**

GGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCCGAATCCGGGTTCATCCAACACCAGCCGCCTCCACCATGCCGC  
CGAAGTTCGACGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTG  
ATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGG  
CCCAGATTGAGGTGGTGCCTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGA  
AACAGAAAAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGTTTCGACAGATGCGGCACC  
GATCCTTAGCCAGAGAAGTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTG  
ATGGCCGCCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAA  
GGAAAATATTTCAATAAAGGATCATTGACAAC TG

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**FIGURE 943**

MPPKFDGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVPSASALIIKALKEPPRD  
RKKQKNIKHSGNITFDEIVNIVRQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHDIIDDINSGAVECPAS

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**FIGURE 944**

ATGGAAGATTTGATGGACATGGACATGAGCCTCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCC  
GACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGACCATCAGTTTAGGGGCTGGTGCAAGGGATGAA  
TTGCACATTGTTGAAGCAGAGGCCATGAATGATGAAGGCAGTCCAATTAAAGTCACACTGGCAACTTTGAAAATG  
TCTGTACAGCCAACTGCTTCCCTTGGGGGCTTTGAAATCACACCACCAGTGGTCTTACAGTTGAAGTGTGGTTCA  
GGGCCAGTGCATATTAGTAGACAGTGCTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAG  
GATGTGAACCTCTTAAGCATATCTGGAAAGCGGTCTGCCTCTGGAGGTGGTAGCAAGGCGCCAGCTACCGCGCC  
CACTGGTCAGAAGTGTGGCCAGCGTCTATGCAGGCCCTGGGAGCTCAGGGTGGCTTGGGGTCCAGGAGCATGGCC  
GCAGGTATGGCCGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAATGAC  
CGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGAGATGGGAACTGGAAGCTGGAGAGCAAAATCTGGGAG  
CACCTGGAGAAGAAGGGACCCAGGTGAGAGACTGGGGCCACTACTTCAAGACCATCGAGGAGGACCTGACTCAG  
ATCTTCACAAGTACTGTGGACAATACCTGCATCATTCTGCAGATCGACAATGCCCATCTTGCTGCTGATGACTTT  
AGAGTCAAGTATGAGACAGAGCCGGCCACGTGCCAGTCTGTGGAGAACGACATCCATGGGCTCCACAAGGTCATT  
GATGACACCAGTGTCACTCAGCTGCAGCTAGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCCTGAAG  
AAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCAGATTGCCAGCTCTGTTGACCATGGAGGCCTTGGAGAT  
CGACCTGGACTGGATGAAAAATCTGGAGGCCAGCTTGGAGAACAGCCTGAAGGGGGGTGGAGGCCTGCTACACC  
CTGCAGATGGAACAACTCAATGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAG  
GGCCAGGCCCAGGAGTACCAGGCCCTGCCAAACATCAAGCAGCAACTCCACGCAAACCATCCAAAAGACTCCAC  
CTGCCAACAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGACATTAA

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**FIGURE 945**

MEDLMDMDMSLLRPQNYLFGCELKADKDDHFKVDNDENETISLGAGARDELHIVEAEAMNDEGSPIKVTLATLKM  
SVQPTASLGGFEITPPVVLQLKCGSGPVHISRQCLVAVEEDAEESEDEEEEDVNLLSISGKRSASGGGSKAPSYRA  
HWSEVWPASMQALGAQGGLGSRSMAGGLAGMGGIQNEKETMQSLNDRLASYLDRVRSLEMGNWKLESKIWE  
HLEKKGPQVRDWGHYFKTIEEDLTQIFTSTVDNTCIIILQIDNAHLAADD FRVKYETEPATCQSVENDIHGLHKVI  
DDTSVTQLQLETEIEALKEELLFLKKNHEEEVKGLQAQIASSVDHGGLGDRPGLDEKSGGQLGEQPEGGVEACYT  
LQMEQLNGILLHLESELAQTWAEQGQQAQEQALPNIKQQLHANHPKDSHLPTVDGKVVSETNDTKVLRH

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**FIGURE 946**

GACAGTTTAGCAGAACAGCCTCCGCGGCTCCGGGGAGAAGCAATATGTTAAGGATACCTGTAAGAAAGGCCTTAG  
TAGGCCTTTCTAAGTCTCCTAAAGGATGTGTTGGAACAACAGCCAGCAGCAAGCAACTTGATTGAAGTATTTG  
TTGATGGTCAGTCTGTCTATGGTGGAAACCGGGAACGACCGTCTCCAAGCTTGTGAGAAGGTTGGCATGCAGATCC  
CTCGATTCTGTTATCATGAAAGGTTGTCTGTTGCTGGAACCTGCAGGATGTGCCTTGTTGAAATTGAGAAAAGCCC  
CTAAGGTTGTAGCTGCTTGTGCCATGCCAGTAATGAAGGGTTGGAATATCCTAACAACTCAGAAAAATCCAAAA  
AAGCCAGGGAAGGTGTGATGGAGTTCTTATTAGCAAATCACCCATTGGACTGTCCTATTTGTGACCAGGGAGGTG  
AATGTGATCTGCAGGACCAGTCCATGATGTTTGGAAATGATAGGAGCCGATTTTTAGAGGGGAAGCGTGCTGTGG  
AAGACAAGAACATTGGGCCATTGGTAAAGACCATCATGACAAGATGTATACAGTGTACTCGCTGCATCAGGTTTG  
CAAGTGAGATTGCAGGAGTAGATGATTTGGGAACAACAGGCAGAGGAAATGATATGCAAGTTGGCACATACATTG  
AAAAGATGTTTATGTCTGAACTGTCTGGGAATATCATTGATATCTGCCCTGTAGGTGCCCTAACCTCTAAGCCCT  
ATGCCTTTTACTGCCCCGGCCTTGGGAAACAAGAAAGACAGAATCCATTGATGTAATGGATGCGGTTGGAAGTAATA  
TTGTGGTTAGCACAAGAAGCTGGAGAAGTGTAGGATTTTGCCACGTATGCATGAGGACATCAATGAAGAGTGGAA  
TCTCTGATAAAACCAGATTTGCCTATGATGGGCTAAAACGTCAAAGACTTACCGAGCCAATGGTCAGAAATGAAA  
AAGGGCTTTTAACTTATACTTCTTGGGAGGATGCGCTCTCTCGCGTAGCTGGAATGTTGCAGAGTTTTCAAGGCA  
AAGATGTGGCAGCAATTGCAGGTGGCTTGGTGGATGCTGAAGCCCTGGTAGCTCTCAAAGATTTGCTTAATAGAG  
TGGACTCTGACACCTTATGCACTGAAGAGGTCTTCCCCACTGCAGGAGCTGGCACAGATTTGCGTTCCAATTATC  
TTCTTAATACTACAATTGCTGGTGTGGAAGAGGCAGATGTTGTTCTTCTGGTTGGTACAAACCCACGTTTTGAGG  
CACCCTGTTTTAATGCTAGAATTGCAAAGAGCTGGCTGCATAATGACTTAAAAGTGGCCCTTATAGGCAGTCCAG  
TGGACCTCACTTACACATATGACCACCTGGGAGACTCCCCCAAATTCTTCAAGACATTGCTTCGGGAAGCCATC  
CATTTAGCCAGGTCCTAAAGGAAGCTAAAAAACCATGGTGGTTTTAGGCAGTTCTGCACTCCAAAGAAATGATG  
GAGCAGCAATTCTTGCAGCTGTTTCTAGCATTGCACAAAAGATTCCGATGACTAGTGGTGTACTGGTGATTGGA  
AAGTTATGAATATCCTTCATAGGATTGCAAGTCAAGTAGCTGCTTTGGACCTTGGCTATAAGCCTGGGGTGAAG  
CAATTGGAAGAACCCTCCCAAGGTGCTGTTTCTCCTGGGAGCAGATGGAGGTTGTATCACACGACAGGATTTGC  
CAAAGGATTGTTTCATTATTTATCAAGGACATCATGGTGATGTTGGGGCTCCCATAGCTGATGTTATTCTCCAG  
GAGCTGCTTACACAGAGAAGTCTGCTACATATGTCAACACTGAGGGTAGAGCTCAGCAGACTAAGGTAGCAGTGA  
CACCTCCTGGCTTGGCAAGAGAAGACTGGAATAATTATAAGAGCACTCTCTGAGATTGCTGGAATGACTCTTCCAT  
ATGATACTCTGGATCAAGTAAGGAACAGATTGGAAGAAGTCTCTCCTAATCTTGTTTCGATATGATGATATTGAAG  
GGGCTAATTACTTCCAGCAAGCAAAATGAGCTCTCAAAGCTAGTGAACCAGCAGCTTCTTGCTGACCCACTTGTTT  
CACCTCAGCTAACTATAAAAAGACTTCTACATGACAGATTCAATTAGCAGAGCCTCACAGACAATGGCCAAATGTG  
TCAAAGCTGTACAGAGGGGTGCCCAGGCAGTAGAGGAACCATCCATATGCTGAAGCTTCTACTAGGATCCAGTT  
TTGCCGAGATAATTAATGGACAACCTGTAGTGCAGTGATCCTTTACAGGTTTATTTCTTTGTAAAAAAAATAAT  
AATAATTTGAATCATGTAATATTTAAGGTTATACATATGCCTATTTGAAAATGATATTAGTTATCACTTTGCAGT  
TTGAAAACATGTATTGTGTGTAAAGGTTAAATAACAAAACCTATGCAGATGCTCTTAAAGCATTGATAACCTTT  
GTGACGAACATAAAGAGATCCTTAAATT

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**FIGURE 947**

MLRIPVRKALVGLSKSPKGCVRTTATAASNLIIEVFVDGQSVMEPGTTVLQACEKVGMQIPRFCYHERLSVAGNC  
RMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDCPICDQGGECDLQDQSMFNGDR  
SRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDL GTTGRGNDMQVGTYIEKMFMSSELSGNIIDI  
CPVGALTSPYAFARPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEEWISDKTRFAYDGLKRQ  
RLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGDVAAIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTA  
GAGTDLRSNYLLNTTIAGVEEADVLLVG TNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPK  
ILQDIASGSHPFSSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKVMNILHRIASQVAA  
LDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGHGHDVGAPIADVILPGAAYTEKSATYV NTE  
GRAQQT KVAVTPPGLAREDWKIIRALSEIAGMTLPYDTLDQVRNRLEEVS PNLVRYDDIEGANYFQQANELSKLV  
NQQLLADPLVPPQLTIKDFYMTDSISRASQTMACVKAVTEGAQAVEEPSIC



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**FIGURE 948**

GCCTCGAGGCGGGCGTCTTCGGTCATCTCCGGCGCTTCTAGGGCTGGTTCCCGTCATCTTCGGGAGCCGTGGAGC  
TCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACC  
TGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCC  
CACCGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCC  
TGCCAGGAGTGAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAG  
ATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAA  
GGGAAGAACGTCTTGACACAATATGAATCAAAGAAAGCCAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTAC  
TAGATGTGAAACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCCTCAGAAGCATTCAAGCAGACG  
GCTTAGTCTGGGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTG  
AAGATGATAAAGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATG  
TGGCTGCTTTCAACAAGATCTTAAAATCCATCCTGGATCATGGCATTTAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 949**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAERLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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**FIGURE 950**

GGACAATTTGTGGGCCATTTAATTCAGGGCCCCCAATTCGTACGTGGAGAAGTGGGAATGCAAAAGTACTTTGAC  
CTTTAACCTTCGGTCCGGCGCGGTGGAGGGAAACGCCTCCGTCTCTATATAAGGAATTTCCGGTCTCTTCGGGT  
CCTTTTTCTCTCTTCAGCGTGGGGCGCCACAATTTGCGCGCTCTCTTTCTGCTGCTCCCCAGCTCTCGGATAC  
AGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAA  
GAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCCACCGCCTGC  
CGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGT  
GAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAGATAGTAAAGA  
TGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAAGGGAAGAACG  
TCTTGACAAATATGAATCAAAGAAAGCCAAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTACTAGATGTGAA  
ACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCCTCAGAAGCATTCAAGCAGACGGCTTAGTCTG  
GGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAA  
AGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTT  
CAACAAGATCTAAATCCATCCTGGATCATGGCATTAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 951**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAkRLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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**FIGURE 952**

GAAGGGGCGGGGCCAAAAGTGC GCGCCCAATCGGGGTGACGCTCTAGCCTTGCCGGGGACTCGTGGGTAACTTGC  
TTTTGGGAGCCAGCGGTATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAG  
GGCCCGAGTGCTCCGGATGCTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTTC  
CAACATCACCTTTGGTACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCA  
CATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTTCATCT  
CGAGGCTACTGAGAACCAGGGGCTTTGATTAAAGACATTGGGAGAAATGGGATGAAGGTTGGCCTTGCCATCAA  
ACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGTTATGACAGTGAAC  
GGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGTTCACTGGTTGAGGACCCAGTTCCCATCTTT  
GGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTCCATAAATGTGCAGAGGCAGGAGCTAACATGATTGT  
GTCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAGAAGC  
TGCTCAGAAACGTTCTCTTGATCGGTGAACCATAAAGGAGCCAGTGTTCTGTTTCATGAAATCTCCCTTTTACT  
GGAAAACAGGAATATTGACTACCAAATCACAATGCAATTGAAGCCGTAAGTCTTTTGGAGCAGTTATTCATTCC  
AGTGATTAAAGTGAATGTGTCAGAAATATTCTAAGAGGTCAGAAATGGTGTGTATAACTACATTTTGTGATGC  
AATTTATTGATTAGTGAGTAAGATACTGTTTTTATTGAGAGATTTGATTTTATAAAGTAAAAATACGGCTGCAT  
TAGGGTTACAAAACAGAAAAGTGTCTTAATGTCTAAGGAGGGCATATTAGCTACACTACAAAACAAATTTTGTCT  
GTACTTCTGAAAAGAAATTTGTTGTTTCTCAGCTGTTTTCCAAAAGCAAAGGAAGTCTTTATGGTTTTTTCTAT  
TTCATGTTATTGTGATTTGTTTATAAGTTTGGGTGGGGTGCATACCATATTCTTGGTTCTTAAATCTATCACTT  
TTCACCTTACACTTGATGTGTGAAAACATAAAAAACAATGTGTGAAAACCCAGGGTTCTAAAATACAAGCATAGA  
TTTTATCAGGGTGTTTTGTCAAAGCAGGTTATTTCAGTGATTCCTCCCCACCATTCTTAAGAACGTTAAATAATGC  
TGTGTGTAGTCTGAGTAGAAAGGAAAAAGTAAACCTCTGTTTGGAGGTAATATTGGGTTGAATTCTGACTG  
CCCCTTTCTAGCTGGACCTTTAACAATCACCCAATCTTTTTTGTGTTTCTCTAAAGTCATTTATACATTAAATG  
TAATTATAGCAACTGTGGGGTTCTGTTGAGAATTAAGAGCTAACACTATATATGTAAAGTTTCCAGTACTAGTCC  
CAGAAATTTAGAAATATGCTCAACACAAAGTAAACAGCATTATATAAGTTTATATTTTGTGAGTTATAAAGTACTT  
TGATATATTCTCATTAAATCTGTAAATCACCTCTATAAGTAAGTGGAATAATAAAGCAGATATTTTGTCCCCA  
TTTAAAAAATGAAGAAATTAATGCTTAATAGGGTGGTACCCTGGAAAGGATCTGGGAAGTGGTAGAATTTCTGGT  
CTGTACTTTTACAAATGGAGCCCTTGGGAGGTGGGTTAGGTAAAAGAAGCTTTTACTTAACGTTGTCTTATTTT  
CAGTCTAATTTTACGCTGTAGCAGAACCAGATGGCTGAGAAAATCTGGAACATATGGATCTTGACCCCAAGGATA  
TATTATTTTATTCCAAGAAAGATCAGGTAGGCGAAAAGATGACAGGATACAGAGTCAATCCATAAACTAAATATT  
TATAACTGTTCTGAATTATACAGAGTCTAAAAATATGTGTGAGTACTTCATTCTGTAAATACTCTTGCTGTGT  
TATAAATATGGCAAGAAATAAACATGACCAATATCAATAGACTTCTTGAGGCTACTATAAGTTTTGAGAAATAAG  
GTTCAAAAAATAAGAATGCTAACACTTAAGCACAGACTAGAGCTTGCTTGGGTTTCTTCTGCAATTACAAGGTAA  
AAATTTGTTAATGTTTGTGTTTTTATTGAGCTTGGGAAAGCTTTGTGCCATGAATACGTCGATTTAATAACAAGCA  
ACACACGGCATATAGAAATAACTTTAATTAAAAACTTACATAGAAGATTATAATATCAGACGTGACAAAGATTT  
GAGTTTATTTGCCTGGACAACCTGGGTTTGTCTGGCTTTTGTGTTTCTTTTCTTTAAAAATAAATGTACAGTAA  
ACTAC

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**FIGURE 953**

MLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDMHMMVSKPEQWVKPMAVAGANQYTFHLEATEN  
PGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHWRRTQFPSLDIEVD  
GGVGPDTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVCSEAAQKRSLDR

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**FIGURE 954A**

GAAGAGCAAGAGGCAGGCTCAGCAAATGGTTCAGCCCCAGTCCCCGGTGGCTGTCAGTCAAAGCAAGCCCCGGTTG  
TTATGACAATGGAAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGCAATGCGTTGGTTTGTAC  
TTGTTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACAC  
TGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCTAAAGACTCCATGATCTGGGACTGTACCTGCATCGG  
GGCTGGGCGAGGGAGAATAAGCTGTACCATCGCAAACCGCTGCCATGAAGGGGGTCAGTCCACAAAGATTGGTG  
CACCTGGAGGAGACCACATGAGACTGGTGGTTACATGTTAGAGTGTGTGTGCTTGGTAATGGAAAAGGAGAATG  
GACCTGCAAGCCCATAGCTGAGAAGTGTGTTGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGA  
GAAGCCCTACCAAGGCTGGATGATGGTAGATTGTACTTGCCTGGGAGAAGGCAGCGGACGCATCACTTGCACCTC  
TAGAAATAGATGCAACGATCAGGACACAAGGACATCCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCG  
AGGAAACCTGCTCCAGTGCATCTGCACAGGCAACGGCCGAGGAGAGTGGAAGTGTGAGAGGCACACCTCTGTGCA  
GACCACATCGAGCGGATCTGGCCCCCTTACCGATGTTCTGTGAGCTGTTTACCAACCGCAGCCTCACCCCCAGCC  
TCCTCCCTATGGCCACTGTGTACAGACAGTGGTGTGGTCTACTCTGTGGGGATGCAGTGGCTGAAGACACAAGG  
AAATAAGCAAATGCTTTGCAGTGCCTGGGCAACGGAGTCAGCTGCCAAGAGACAGCTGTAACCCAGACTTACGG  
TGGCAACTCAAATGGAGAGCCATGTGTCTTACCATTACCTACAATGGCAGGACGTTCTACTCCTGCACCACAGA  
AGGGCGACAGGACGGACATCTTTGGTGCAGCACAACTTCAATTATGAGCAGGACCAGAAATACTCTTTCTGCAC  
AGACCACACTGTTTTGGTTTACAGTCTGAGGAGGAAATTCCAATGGTGCCTTGTGCCACTTCCCCTTCTTATACAA  
CAACCACAATTACACTGATTGCACCTCTGAGGGCAGAAGAGACAACATGAAGTGGTGTGGGACCACACAGAATA  
TGATGCCGACCAGAAAGTTTGGGTTCTGCCCCATGGCTGCCACGAGGAAATCTGCACAACCAATGAAGGGTTCAT  
GTACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATGGGTACATGATGAGGTGCACGTGTGTTGGGAATGG  
TCGTGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGCATTGTTGATGACATCACTTACAATGT  
GAACGACACATTCCACAAGCGTCATGAAGAGGGGCACATGCTGAAGTGTACATGCTTCGGTCAGGGTCGGGGCAG  
GTGGAAGTGTGATCCCCGTCGACCAATGCCAGGATTACAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGA  
GAAGTATGTGCATGGTGTGATACAGTGTCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTT  
ACAGACCTATCCAAGCTCAAGTGGTCTGTGCAAGTATTTATCACTGAGACTCCGAGTCAGCCCAACTCCCACCC  
CATCCAGTGGAAATGCACCACAGCCATCTCACATTTCCAAGTACATTCTCAGGTGGAGACCTAAAAATTCTGTAGG  
CCGTTGGAAGGAAGCTACCATACCAGGCCACTTAACTCCTACACCATCAAAGGCCTGAAGCCTGGTGTGGTATA  
CGAGGGCCAGCTCATCAGCATCCAGCAGTACGGCCACCAAGAAGTGACTCGCTTTGACTTCACCACCACCAGCAC  
CAGCACACCTGTGACCAGCAACACCGTGACAGGAGAGACGACTCCCTTTTCTCCTCTTGTGGCCACTTCTGAATC  
TGTGACCGAAATCACAGCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGCTTCCGACACCGTGTGCGGATTCCGGGT  
GGAATATGAGCTGAGTGAGGAGGGAGATGAGCCACAGTACCTGGATCTTCCAAGCACAGCCACTTCTGTGAACAT  
CCCTGACCTGCTTCTGCGCCGAAATACATTGTAAATGTCTATCAGATATCTGAGGATGGGGAGCAGAGTTTGAT  
CCTGTCTACTTCACAAACAACAGCGCTGATGCCCTCCTGACACGACTGTGGACCAAGTTGATGACACCTCAAT  
TGTTGTTGCTGAGAGCAGACCCAGGCTCCCATCACAGGGTACAGAATAGTCTATTTCGCCATCAGTAGAAGGTAG  
CAGCACAGAACTCAACCTTCTGAACTGCAAACTCCGTACCCCTCAGTGAAGTTCGAACTGGTGTTCAGTATAA  
CATCACTATCTATGCTGTGGAAGAAAATCAAGAAAGTACACCTGTTGTTCATTCAACAAGAAACCACTGGCACCCC  
ACGCTCAGATACAGTGCCCTCTCCCAGGGACCTGCAGTTTGTGGAAGTGACAGACGTGAAGGTCACCATCATGTG  
GACACCGCCTGAGAGTGACGTGACCGGCTACCGTGTGGATGTGATCCCCGTCAACCTGCCTGGCGAGCACGGGCA  
GAGGCTGCCCATCAGCAGGAACACCTTTGCAGAAGTACCGGGCTGTCCCTGGGGTCACCTATTACTTCAAAGT  
CTTTGACGTGAGCCATGGGAGGGAGAGCAAGCCTCTGACTGCTCAACAGACAACCAAACTGGATGCTCCCACTAA  
CCTCCAGTTTGTCAATGAACTGATTCTACTGTCTGTTGAGATGGACTCCACCTCGGGCCAGATAACAGGATA  
CCGACTGACCGTGGGCCTTACCCGAAGAGGACAGCCCAGGCAGTACAATGTGGGTCCCTCTGTCTCCAAGTACCC  
ACTGAGGAATCTGCAGCCTGCATCTGAGTACACCGTATCCCTCGTGGCCATAAAGGGCAACCAAGAGAGCCCCAA  
AGCCACTGGAGTCTTTACCACACTGCAGCCTGGGAGCTCTATTCCACCTTACAACACCGAGGTGACTGAGACCAC  
CATTGTGATCACATGGACGCTGCTCCAAGAATTGGTTTTAAGCTGGGTGTACGACCAAGCCAGGGAGGAGAGGC  
ACCACGAGAAGTGACTTCAGACTCAGGAAGCATCGTTGTGTCCGGCTTGAAGTCCAGGAGTAGAATACGTCTACAC  
CATCCAAGTCTGAGAGATGGACAGGAAAGAGATGCGCCAATTGTAAACAAAGTGGTGACACCATTGTCTCCACC  
AACAACTTGATCTGGAGGCAACCCCTGACACTGGAGTGTCTACAGTCTCCTGGGAGAGGAGCACCACCCAGCA  
CATTACTGGTTATAGAATTACCACAACCCCTACAAACGGCCAGCAGGGAAATTCTTTGGAAGAAGTGGTCCATGC

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**FIGURE 954B**

TGATCAGAGCTCCTGCACTTTTGGATAACCTGAGTCCCGGCTGGAGTACAATGTCAGTGTTTACACTGTCAAGGA  
TGACAAGGAAAAGTGTCCTTATCTCTGATACCATCATCCAGCTGTTCTCTCTCCCACTGACCTGCGATTACCAA  
CATTGGTCCAGACACCATGCGTGTACCTGGGCTCCACCCCATCCATTGATTTAACCAACTTCTGGTGCGTTA  
CTCACCTGTGAAAAATGAGGAAGATGTTGCAGAGTTGTCAATTTCTCCTTCAGACAATGCAGTGCGTCTTAACAAA  
TCTCCTGCCTGGTACAGAATATGTAGTGAGTGTCTCCAGTGTCTACGAACAACATGAGAGCACACCTCTTAGAGG  
AAGACAGAAAACAGGTCTTGATTCCCCAACTGGCATTGACTTTTCTGATATTACTGCCAACTCTTTTACTGTGCA  
CTGGATTGCTCCTCGAGCCACCATCACTGGCTACAGGATCCGCCATCATCCCGAGCACTTCAGTGGGAGACCTCG  
AGAAGATCGGGTGCCCCACTCTCGGAATTCATCACCCCTACCAACCTCACTCCAGGCACAGAGTATGTGGTCAG  
CATCGTTGCTCTTAATGGCAGAGAGGAAAGTCCCTTATTGATTGGCCAACAATCAACAGTTTCTGATGTTCCGAG  
GGACCTGGAAGTTGTTGCTGCGACCCCAACAGCCTACTGATCAGCTGGGATGCTCCTGCTGTACAGTGAGATA  
TTACAGGATCACTTACGGAGAGACAGGAGGAAATAGCCCTGTCCAGGAGTTCACTGTGCTGGGAGCAAGTCTAC  
AGCTACCATCAGCGGCTTAAACCTGGAGTTGATTATACCATCACTGTGTATGCTGTCACTGGCCGTGGAGACAG  
CCCCGCAAGCAGCAAGCCAATTTCCATTAAATTACCGAACAGAAATTGACAAACCATCCAGATGCAAGTGACCGA  
TGTTTCAGGACAACAGCATTAGTGTCAAGTGGCTGCCTTCAAGTTCCCCTGTTACTGGTTACAGAGTAACCACCAC  
TCCCCAAAATGGACCAGGACCAACAAAACATAAACTGCAGGTCCAGATCAAACAGAAATGACTATTGAAGGCTT  
GCAGCCACAGTGGAGTATGTGGTTAGTGTCTATGCTCAGAATCCAAGCGGAGAGAGTCAGCCTCTGGTTCAGAC  
TGCAGTAACCAACATTGATCGCCCTAAAGGACTGGCATTCACTGATGTGGATGTGATTCCATCAAATTGCTTG  
GGAAAGCCACAGGGGCAAGTTTCCAGGTACAGGGTGACCTACTCGAGCCCTGAGGATGGAATCCATGAGCTATT  
CCCTGCACCTGATGGTGAAGAAGACACTGCAGAGCTGCAAGGCCTCAGACCGGGTTCTGAGTACACAGTCAGTGT  
GGTTGCCTTGACGATGATATGGAGAGCCAGCCCTGATTGGAACCCAGTCCACAGCTATTCTGCACCAACTGA  
CCTGAAGTTCACTCAGGTACACCCACAAGCCTGAGCGCCCACTGGACACCACCAATGTTACGCTCACTGGATA  
TCGAGTGCGGGTGACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACAGCTCATCCGT  
GGTTGTATCAGGACTTATGGTGGCCACCAATATGAAGTGAGTGTCTATGCTCTTAAGGACACTTTGACAAGCAG  
ACCAGCTCAGGGAGTTGTCAACCACTCTGGAGAATGTCAGCCACCAAGAAGGGCTCGTGTGACAGATGCTACTGA  
GACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACGATCACTGGCTTCCAAGTTGATGCCGTTCCAGCCAA  
TGGCCAGACTCCAATCCAGAGAACCATCAAGCCAGATGTCAGAAGCTACACCATCACAGGTTTACAACCAGGCAC  
TGACTACAAGATCTACCTGTACACCTTGAATGACAATGCTCGGAGCTCCCCTGTGGTCATCGACGCCCTCCACTGC  
CATTGATGCACCATCCAACCTGCGTTTCTGGCCACCACACCAATTCCTTGCTGGTATCATGGCAGCCGCCACG  
TGCCAGGATTACCGGCTACATCATCAAGTATGAGAAGCCTGGGTCTCCTCCAGAGAAGTGGTCCCTCGGCCCCG  
CCCTGGTGTACAGAGGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAA  
GAATAATCAGAAGAGCGAGCCCCCTGATTGGAAGGAAAAAGACAGACGAGCTTCCCCAACTGGTAACCTTCCACA  
CCCCAATCTTCATGGACCAGAGATCTTGGATGTTCTTCCACAGTTCAAAGAGACCCCTTTCGTCACCCACCCTGG  
GTATGACACTGGAAATGGTATTCAGCTTCTTGGCACTTCTGGTCAGCAACCCAGTGTGGGCAACAAATGATCTT  
TGAGGAACATGGTTTTAGGCGGACCACACCGCCCAACGGCCACCCCCATAAGGCATAGGCCAAGACCATAACC  
GCCGAATGTAGGACAAGAAGCTCTCTCTCAGACAACCATCTCATGGGCCCCATTCCAGGACACTTCTGAGTACAT  
CATTTTATGTATCCTGTTGGCACTGATGAAGAACCCTTACAGTTCAGGGTTCTTGAACCTTCTACAGTGCCAC  
TCTGACAGGCCTCACCAGAGGTGCCACCTACAACGTCATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGT  
TCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCAACCTACGGATGACTCGTGCTTTGA  
CCCCTACACAGTTTCCATTATGCCGTTGGAGATGAGTGGGAACGAATGTCTGAATCAGGCTTTAACTGTTGTG  
CCAGTGCTTAGGCTTTGGAAGTGGTCATTTAGATGTGATTATCTAGATGGTGCCATGACAATGGTGTGAACATA  
CAAGATTGGAGAGAAGTGGGACCGTCAGGGAGAAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACGGAAA  
AGGAGAATTCAAGTGTGACCCTCATGAGGCAACGTGTTATGATGATGGGAAGACATAACCGTAGGAGAACAGTG  
GCAGAAGGAATATCTCGGTGCCATTTGCTCCTGCACATGCTTTGGAGGCCAGCGGGGCTGGCGCTGTGACAACTG  
CCGCAGACCTGGGGGTGAACCCAGTCCCGAAGGCACTACTGGCCAGTCTTACAACAGTATTCTCAGAGATACCA  
TCAGAGAACAAACACTAATGTTAATTGCCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGACAGAGAAGA  
TTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACAAGCATGTCTCTCTGCCAAGATCCATCTAAACTGGAGT  
GATGTTAGCAGACCCAGCTTAGAGTTCTTCTTTCTTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCCAGCTTCA  
GCTCAACTCACAGCTTCTCCAAGCATCACCCCTGGGAGTTTCTGAGGGTTTTCTCATAAATGAGGGCTGCACATT



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**FIGURE 954C**

GCCTGTTCTGCTTCGAAGTATTCAATACCGCTCAGTATTTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCA  
ATAGGAAAGCATATGCAGCCAACCAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTTAAGTAGGAAAGTC  
ACCCAAACACTTCTGCTTTCACCTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGTTACTGTGA  
TATTTTAAATATCCACAGTACTCACTTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTCTCTTACCTG  
TTATTTATCAATTTTCCCAGTATTTTATACGGAAAAAATTGTATTGAAAACACTTAGTATGCAGTTGATAAGA  
GGAATTTGGTATAATTATGGTGGGTGATTATTTTTTATACTGTATGTGCCAAAGCTTTACTACTGTGGAAAGACA  
ACTGTTTTAATAAAAGATTTACATTCC

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**FIGURE 955**

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCTGCAGCC  
ATGGCTCCCGGCCAGCTCGCCTTATTTAGTGTCTCTGACAAAACCGGCCTTGTGGAATTTGCAAGAAACCTGACC  
GCTCTTGGTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT  
GTCTCTGAGTTGACGGGATTTCTGAAATGTTGGGGGGACGTGTGAAAACCTTGCATCCTGCAGTCCATGCTGGA  
ATCCTAGCTCGTAATATTTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCAATCTTATAAGAGTTGTTGCC  
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAACGTGTGAGGAGGCTGTGGAGCAAATTGAC  
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAACACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC  
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC  
TTGAAGGCATTCACCTCATACGGCACAAATATGATGAAGCAATTTTCAGATTATTTTCAGGAAACAGTACAGCAAAGGC  
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCAGCTGTACACACTGCAGCCCCAAG  
CTTCCCATCACAGTTCTAAATGGAGCCCTTGATTTATAAACTTGTGCGATGCTTTGAACGCCTGGCAGCTGGTG  
AAGGAACTCAAGGAGGCTTTAGGTATTCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT  
GGAATTCACCTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCCCTCACACCCATCTCA  
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTTCATTGTCCGATGTTTGT  
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAAATTGCCCCAGGATATGAAGAAGAAGCC  
TTGACAATACTTTCCAAAAAGAAAAATGGAACCTATTGTGTCTTCAGATGGACCAATCTTACAAACCAGATGAA  
AATGAAGTTCGAACCTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAATAATGGTGTCTGCGACAAGTCATTATTT  
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTGCTGTC  
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTATCGGCATTGGAGCAGGACAGCAGTCT  
CGTATACACTGCACTCGCCTTGCAGGAGATAAGGCAAACCTATTGGTGGCTTAGACACCATCCACAAGTGCTTTTCG  
ATGAAGTTTAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTTGGC  
GAGGATGAAGATTTGATAAAGTGAAGGCACTGTTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG  
GAATGGGTTGAGAACTGACTGAAGTTTCTATCAGCTCTGATGCCTTCTTCCCTTTCCGAGATAACGTAGACAGA  
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTTCTGCTGCTGACAAAGTTGTGATTGAGGCCTGC  
GACGAACTGGGAATCATCCTCGCTCATACGAACCTTCGGCTCTTCCACCACTGATTTTTACCACACACTGTTTTTT  
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAAACTTTGAGGATAACTTTTTAAAAAAATAAAACAGTATCT  
CTTAAAACAATGTTTTGATCTACATAAACATTGTAAAAATTTTCAATCACGCTTTTTAACTTTCTTACCACAAAA  
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC

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**FIGURE 956**

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLLHPAVHAG  
ILARNIPEDNADMARLDENLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLRLAAAKNHARVTVCEPED  
YVVVSTEMQSSSESKDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK  
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKEHVSPAGAAVGIPLSEDEAKVCMVVDLYKTLPIS  
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEEALTILSKKKNGNYCVLQMDQSYKPDE  
NEVRTLFGLHLSQKRNNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTSNSVCYAKNGQVIGIGAGQQS  
RIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNAIDQYVTGTIGEDDLIKWKALFEEVPELLTEAEKK  
EWVEKLTEVSISSDAFFPFRRDNVDRAKRSGVAYIAAPSGSAADKVVEACDELGIILAHTNLRLFHH

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**FIGURE 957**

GCAGCCAATTAAGCCAAGTGAAGTTTCCTTTGCTGGGGGGCCCAGTGTGCAATGGCTGCACACAGCAGCTTCCTT  
GGTAGTGTACACAGCCTGTTGGTTGTATGGGTTGCTCTGAGGGACCTTGGAGACAGGCCTTTCCAATGGATGTTT  
ATGTTTCTGACCTTGCGCTACCCCAATGTAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAATGCCCCAGGGCA  
CTGTGGCCAGGGTTACATTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTG  
AGGCCCTGCGCAGGGCCAAGTTCAAGCTTCCTGGCCACCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCA  
AGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGTGGCTCATCCAGATGGCTGTGGGGTCAAGTACA  
TCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTA  
ATACTCACCAATAAATTCTACTTCCTGTCAAAAAAATGTCACTAATGTACCCTAAATTTCTTTTTATTTTTAT  
TTTTTATTTATTTATTTATTTTTTTTGGAGATGGTGTCTTGCTCTTTTGCCAGACTGGAGTGAAGTAGCATGATCT  
TGGCTTACTGCAACCTCCACCCCCAG

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**FIGURE 958**

GGCGGGCGACCAAAGCGCCTGAGGACCGGCAACATGTTGCGGTGCGGGAATAAGGCAGCTGTTGTGCTGTGTATG  
GACGTGGGCTTTACCATGAGTAACTCCATTCTGGTATAGAATCCCCATTTGAACAAGCAAAGAAGGTGATAACC  
ATGTTTGTACAGCGACAGGTGTTTGTCTGAGAACAAGGATGAGATTGCTTTAGTCCTGTTTGGTACAGATGGCACT  
GACAATCCCCCTTTCTGGTGGGGATCAGTATCAGAACATCACAGTGCACAGACATCTGATGCTACCAGATTTTGAT  
TTGCTGGAGGACATTGAAAGCAAAATCCAACCAGGTTCTCAACAGGCTGACTTCCTGGATGCACTAATCGTGAGC  
ATGGATGTGATTCAACATGAAACAATAGGAAAGAAGTTTGAGAAGAGGCATATTGAAATATTTCACTGACCTCAGC  
AGCCGATTTCAGCAAAAGTCAGCTGGATATTATAATTTCATAGCTTGAAGAAATGTGACATCTCCCTGCAATTCTTC  
TTGCCTTTCTCACTTGGCAAGGAAGATGGAAGTGGGGACAGAGGAGATGGCCCCCTTCGCTTAGGTGGCCATGGG  
CCTTCCTTTTCCACTAAAGGAATTACCGAACAGCAAAAAGAAGTCTTGAGATAGTGAAATGGTGATGATATCT  
TTAGAAGGTGAAGATGGGTTGGATGAAATTTATTTCATTTCAGTGAGAGTCTGAGAAAATGTGCGTCTTCAAGAAA  
ATTGAGAGGCATTCCATTCTGCGCCTGCGGACTGACCATTGGCTCCAATTTGTCTATAAGGATTGCAGCCTAT  
AAATCGATTCTACAGGAGAGAGTTAAAAAGACTTGGACAGTTGTGGATGCAAAAACCTAAAAAAGAAGATATA  
CAAAAAGAAACAGTTTATTGCTTAAATGATGATGATGAACTGAAGTTTTAAAGAGGATATTATTCAAGGGTTC  
CGCTATGGAAGTGATATAGTTCTTTCTCTAAAGTGGATGAGGAACAAATGAAATATAAATCGGAGGGGAAGTGC  
TTCTCTGTTTTTGGGATTTTGTAAATCTTCTCAGGTTTCAGAGAAGATTCTTCATGGGAAATCAAGTTCTAAAGGTC  
TTTGCAGCAAGAGATGATGAGGCAGCTGCAGTTGCACTTTCTCCCTGATTTCATGCTTTGGATGACTTAGACATG  
GTGGCCATAGTTTCGATATGCTTATGACAAAAGAGCTAATCCTCAAGTCGGCGTGGCTTTTCTCATATCAAGCAT  
AACTATGAGTGTGTTAGTGTATGTGCAGCTGCCTTTTCATGGAAGACTTGCAGCAATACATGTTTTTCATCCTTGAAA  
AACAGTAAGAAATATGCTCCACCGAGGCACAGTTGAATGCTGTTGATGCTTTGATTGACTCCATGAGCTTGGCA  
AAGAAAGATGAGAAGACAGACACCCTTGAAGACTTGTTCACACCACCAAAATCCCAATCCTCGATTTCAGAGA  
TTATTTTCAGTGTCTGCTGCACAGAGCTTTACATCCCCGGGAGCCTCTACCCCCAATTCAGCAGCATATTTGGAAT  
ATGCTGAATCCTCCCGCTGAGGTGACAACAAAAAGTCAGATTCTCTCTCTAAATAAAGACCCTTTTCTCTCTG  
ATTGAAGCCAAGAAAAAGGATCAAGTGACTGCTCAGGAAATTTTCCAAGACAACCATGAAGATGGACCTACAGCT  
AAAAATTAAGACTGAGCAAGGGGGAGCCCACTTCAGCGTCTCCAGTCTGGCTGAAGGCAGTGTACCTCTGTT  
GGAAGTGTGAATCCTGCTGAAAACCTTCCGTGTTCTAGTGAAACAGAAGAAGGCCAGCTTTGAGGAAGCGAGTAAC  
CAGCTCATAAATCACATCGAACAGTTTTTGGATACTAATGAAACACCGTATTTTATGAAGAGCATAGACTGCATC  
CGAGCCTTCCGGGAAGAAGCCATTAAAGTTTTTCAAGAGAGCAGCGCTTTAACAACCTTCTGAAAGCCCTTCAAGAG  
AAAGTGGAAATTAACAATTAATCATTTCTGGGAAATGTTGTCCAGGATGGAATTACTCTGATACCAAAGAG  
GAAGCCTCTGGAAGTTCTGTACAGCTGAGGAAGCCAAAAAGTTTCTGGCCCCCAAAGACAAACCAAGTGGAGAC  
ACAGCAGCTGATTTGAAGAAGGTGGTGATGTGGACGATTATTGGACATGATATAGGTCGTGGATGTATGGGGA  
ATCTAAGAGAGCTGCCATCGCTGTGATGCTGGGAGTTCTAACAAAACAAGTTGGATGCGGCCATTCAAGGGGAGC  
CAAAATCTCAAGAAATTTCCAGCAGGTTACCTGGAGGCGGATCATCTAATCTCTGTGGAATGAATACACACATA  
TATATTACAAGGGATAATTTAGACCCCATACAAGTTTATAAAGAGTCATTGTTATTTTCTGGTTGGTGTATTATT  
TTTTCTGTGGTCTTACTGATCTTTGTATATTACATACATGCTTTGAAGTTTCTGGAAAGTAGATCTTTTCTTGAC  
CTAGTATATCAGTGACAGTTGCAGCCCTTGTGATGTGATTAGTGTCTCATGTGGAACCATGGCATGGTTATTGAT  
GAGTTTCTTAACCCTTTCCAGAGTCTCCTTTGCCTGATCCTCCAACAGCTGTCACAACCTTGTGTTGAGCAAGCA  
GTAGCATTGTCTTCCCTCCAACAAGCAGCTGGGTTAGGAAAACCATGGGTAAGGACGGACTCACTTCTCTTTTAA  
GTTGAGGCTTCTAGTTACCACATTACTCTGCCTCTGTATATAGGTGGTTTTCTTTAAGTGGGGTGGGAAGGGGA  
GCACAATTTCCCTTCATACTCCTTTTAAAGCAGTGAGTTATGGTGGTGGTCTCATGAAGAAAAGACCTTTTGGCCC  
AATCTCTGCCATATCAGTGAACCTTTAGAACTCAAAAACCTGAGAAATTTACTTCAGTAGTTAGAATTATATCAC  
TTCACTGTTCTCTACTTGCAAGCCTCAAAGAGAGAAAGTTTCGTTATATTAAACACTTAGGTAACCTTTTCGGTC  
TTTCCCATTTCTACCTAAGTCAGCTTTTCATCTTTGTGGATGGTGTCTCCTTTACTAAATAAGAAAATAACAAAGC  
CCTTATTCTCTTTTTTTCTTGTCTCATTCTTGCCTTGAGTTCCAGTTCCTCTTTGGTGTACAGACTTCTTGGTA  
CCCAGTCACCTCTGTCTTCAGCACCTCATAAGTCGTCACTAATACACAGTTTTGTACATGTAACATTAAAGGCA  
TAAATGACTC

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**FIGURE 959**

MVRSGNKA AVL CMDVGFTMSNSIPGIESPF EQAKK VITMFVQRQVFAENKDEIALVLFGTDGTDNPLSGGDQYQ  
NITVHRHMLP DFDLLEDIESKI QPGSQQADFLDALIVSMDVIQHETIGKKFEKRHIEIFTDLSSRFSKSQLDII  
IHSLKKCDISLQFFLPFSLGKEDGSGDRGDGPFR LGGHGPSFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIY  
SFSESLRKLCVFKKIERHSIHWPCRLTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIQKETVYCLNDD  
DETEVLKEDIIQGFYRGS DIVPFSKVDEEQMKYKSEGKCF SVLGFCSSQVQRRFFMGNQVLKVFAARDDEAAAV  
ALSSLIHALDDLDMVAIVRYAYDKRANPQVGVAFP HIKHNYECLVYVQLPFMEDLRQYMFSSLKNSKKYAPTEAQ  
LNAVDALIDSM SLAKKDEKTDLTLEDLFPTTKIPNPRFQRLFQCLLHRALHPREPLPPIQQHIWNMLNPPAEVTTK  
SQIPLSKIKTLFPLIEAKKKDQVTAQEIFQDNHEDGPTAKKLKTEQGAHFSVSSLAEGSVTSVGSVNPAENFRV  
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFNFLKALQEKVEIKQLNHF  
EIVVQDGITLITKEEASGSSVTAEAEAKKFLAPKDKPSGD TAAVFEEGDVDDLDMI

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**FIGURE 960A**

CTTTTGGAGGCAAGTTGGATGAACAGAGAAGGGAAGAGAGGAAGAACGAGAGGGAAGAGAAGGGAAGGAAGTGT  
GTGTAGAAGAGAGAGAGAAAGACGAATAGAGTTAGGAAAAGGAAGACAAGCAGGTGGGCAGGAAGGACATGCACCGA  
GACCAGGCAGGGGGCCCAACTTTCACGTCCAGCCCTGGCCTGGGGTGGGGAGAGGTGGGCGCTAGAAGATGCAGCC  
CAGGATGTGGCAATCAATGACACTATTGGGGTTTCCCAGGATGGATTGGTCAGGGGGAGAAAAGGAAAAGGCAAAA  
CACTCCAGGACCTCTCCCGGATCTGTCTCCTCCTCTAGCCAGCAGTATGGACAGCTGGACCCCTGAACCTCCTCT  
CCTCTTACCTGGGCAGAGTGTGTCTCTCCCAAAATTTATAAAAACTAAAATGCATTCCATTCTCTGAAAGCAA  
AACAAATTCATAATTGAGTGATATTAAATAGAGAGGTTTTCGGAAGCAGATCTGTGAATATGAAATACATGTGCA  
TATTTTCATTCCCCAGGCAGACATTTTTTAGAAATCAATACATGCCCAATATTGAAAGACTTGTCTTCCACGG  
TGACTACAGTACATGCTGAAGCGTGCCGTTTCAGCCCTCATTTAATTCAATTTGTAAGTAGCGCAGCAGCCTCTG  
TGGGGGAGGATAGGCTGAAAAAAGTGGGCTCGTATTTATCTACAGGACTCCATATAGTCATATATAGGCAT  
ATAAATCTATTCTTTTCTTTGTTTTTCTTTCTTCTTCTTCAAAGGTTTGCATTAACTTTTCAAAGTAGT  
TCCTATAGGGGCATTGAGGAGCTTCTCATTCTGGGAAAAGTGAAGAAACCCATATTCTCCTAATAACAACCCGTA  
ATAGCATTTTTGCCTGCCTCGAGGCAGAGTTTCCCGTGAGCAATAAACTCAGCTTTTTTGTGGGGCAGAGTACTG  
GATTTGACAGTGATTCCCCACGTGTGTTTCATCTGCACCCACCGAGCCAGGCAGAGGCCAGCCCTCCGTGGTGCAC  
ACAGCACGCGCCTCAGTCCATCCCATTTTAGTCTTTAAACCCTCAGGAAGTCACAGTCTCCGGACACCACACCAC  
ATGAGCCCAACAGGTCCACGATGGATCCACCAGTCCACCCAGCCTTTTCTTTTCATCTGAACAGAATGTGCAT  
TTTTGGAAGCCTCCCTCACTCTCCATGCTGGCAGAGCAGGAGGGAGACTGAAGTAAGAGATGGCAGAGGGAGATG  
GTGGCAAAAAGGTTTAGATGCAGGAGAACAGTAAGATGGATGGTTCCGGCCAGAGTCGATGTGGGGAGGAACAGA  
GGGCTGAAGGGAGAGGGGGCTGACTGTTCCATTCTAGCTTTGGCACAAGCAGCAGAAAGGGGGAAAAAGCCAATA  
GAAATTTCTTAGCTTCCCCACCATATGTATTTTCTAGGATTTGAGAGGAAAGAGAGGAAAATGGGGGAATGGGT  
TGCAAAATAGAAATGAGCTTAATCCAGGCCGAGAGCCAGGGAAGGTGAGTAACCTTTAGGAGGGTGCTAGACTTT  
AGAAGCCAGATAGGAAGAATCAGTCTAACTGGCCATGCTTTGGAAGGGACAAGACTATGTGCTCCGCTGCCAC  
CTTCAGCCTGCAATGAGGGACTGAGGCCACGAGTCTTTCCAGCTCTTCTCATTCTGGCCAGTCCCTGCATCC  
TCCCTGGGGTGGAGGATGGAAGGAAAGCTGGGACAAGCAGGGAACGCATGATTTCAGGGATGCTGTCACTCGGCAG  
CCAGATTCCGAAACTCCCATTTCTCAATGACTTCTCAACCAATGGGTGGCCTTGTGACTGTTCTTTAAGGCTGA  
AGATATCCAGGAAAGGGGGCTTGGACACTGGCCAAGGAGACCCCTTCGTGCTGTGGACACAGCTCTCTTCACTCT  
TTGCTCATGGCATGACACAGCGGAGACCGCTCCAACAACGAATTTGGGGCTACGAAGAGGAATAGCGAAAAAGC  
AAATCTGTTTCAACTGATGGGAACCTATAGCTATAGAACTTGGGGGCTATCTCCTATGCCCTGGACAGGACAG  
TTGGCTGGGGACAGGAGAAGTGCTCAATCTTCATGAGACAAAGGGGGCCGATAGGGCCAGCAGCCACAAGGCCTT  
GACCTGCCGAGTCAGCATGCCCATCTCTCTGCACAGCTGTCCCTAAACCCAACTCACGTTTCTGTATGTCTTA  
GGCCAGTATCCCAAACCTCTTCCACGTCACTGTTCTTTCCACCCATTCTCCCTTTGCATCTTGAGCAGTTATCCA  
ACTAGGATCTGCCAAGTGGATACTGGGGTGCCACTCCCTGAGAAAAGACTGAGCCAGGAACTACAAGCTCCCC  
CACATTCCTCCAGCCTGGACCTAATTCTTGAGAGGGGCTCTCTCTTACGGACTGTGTCTGGACTTTGAGCAGG  
CTTCTGCCCTTGGCTTGGCTCTTTGCTGCCAGCCATCAGGTGGGGGATTAGAGCCTGGTGTAAAGTGCGCCAGAC  
TCTTCCGGTTTCCAAAGTTCGTGCCTGCGAACCCAAACCTGTGAGTCTTCTTGCATGCAGGAGTTTCTCCTGGG  
CAGCTGGTCACTCCCCAGAGAAGCTGGGCCTTCATGGACACATGGAACCTAAGCCTCCCAAATGGGAGTTCTGGCT  
GAGCCCAGGGTGGGGAGATCCTGGGAAGGGAGGCACTGGAGGAAGACGGCACCTCTTCCCCATGGCAGGGTGTG  
AGGGAGGCAGGTTTGGAAATGGTGCAGATATGGCAATCTAAGCAGGGGTCTGGTCTCTTTGACTCCAGGCTGGCCT  
TTGGCCGACTGTCTGCTCACCAGAGACCTTGGACTCCGGACTATCCATGGCTCCGAATCTAAGTGCTGCCACT  
CCCATGCTCACACCCACAGAAGGTCTTCCCATCCCTTTAGATTTCGTGCCTCACTCCACCACTGAGGAAGATGCC  
TCTGTCTTTCCACGACTGCCAGGAGATAGGGAAGCCAGCCAGGACTGACCTCCTTCTCCAGCCTGCCCTGA  
CCCACCTGGCAAAAGCAGGGCACATGGGGGAGGAAGAGACTGGAACCTTTCTTTGACAGCCAGGCCTAGACAGACAG  
GCCTGGGGACACTGGCCCCATGAGGGGAGGAAGGCAGGCGACGAGGTCCAGGGAGGCCCTTTTCTGATCATGCC  
CCTTCTCTCCACCCCATCTCCCCACCACCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTA  
GAGGGTGGGCCTCAACCACCTGCTCCCGCCACGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCC  
CCCCCAAGGTGGGACAGTACCCCGGACCCATCCACTCACTCCTGAGAGGGCTCCGGCCAGAATGGGAACCTCA  
GAGAAGAGCTCTAAGGAGAAGAAACCCCATAGCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCC  
GTTTTGCAAAGTGGAGGAGGGACGAGGGGTTTACCAGCCAGCAACCTGGGCCTTGTACTGTCTGTGTT

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**FIGURE 960B**

TTTAAAACCACTAAAGTGCAAGAATTACATTGCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCT  
ATTTCAAACATACTTTCTTGGTTTTCTAATGGAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCT  
GAAATCCTTTTGGATGGGGAAAGGGAAGGTGGGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCGC  
TCACCCCACTCCACCAGTCCCCGGTCGCCAGCCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCACAT  
GGATAGCACAGTTGTCAGACAAGATTCCTTCAGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTT  
GTTTTTCTTTTTCTTTTTTTTTTTGAAGACAGCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTAC  
ATACATTACATACCATAACTCTGTTCTCTCCTCTTTTTTGTTTTCAACTTTAAAAACAAAAATAACGATGATAAT  
CTTTACTGGTGAAAAGGATGGAAAAATAAATCAACAAATGCAACCAGTTTGTGAG



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**FIGURE 961**

MLWKGQDYVLRCPPSACNEGLRPTSLSSSSSILASPCILPGVEDGRKAGTSRERMIQGCCHSAARFRNSHSPMTS  
STNGWPCDCSLRLKISRKGGLDTGQGDPFVLWTQLSSLFAHGMTQRRPPPTNLGLRRGIAKKQICFN

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**FIGURE 962**

CCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTAGAGGGTGGGCCTCAACCACCTGCTCCCGCCA  
CGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCCCCCTCAAGGTGGGACAGTACCCCGGACCCA  
TCCACTCACTCCTGAGAGGGCTCCGGCCCAGAATGGGAACCTCAGAGAAGAGCTCTAAGGAGAAGAAACCCATA  
GCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCCGTTTTGCAAAGTGGAGGAGGGACGAGGGACA  
GGGGTTTCACCAGCCAGCAACCTGGGCCTTGTA CTGTCTGTGTTTTTAAACCCTAAAGTGCAAGAATTACATT  
GCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCTATTTCAAACATACTTTCTTGTTTTCTAATG  
GAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCTGAAATCCTTTTGGATGGGGAAAGGGAAGGTG  
GGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCCTCACCCACTCCACCAGTCCCGGTGCGCCAG  
CCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCACATGGATAGCACAGTTGTCAGACAAGATTCCCTTC  
AGATTCCGAGTTGCCTACCGGTGTTTTCGTTGTTGTTGTTGTTGTTTTCTTTTTCTTTTTTTTTTTGAAGACA  
GCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTACATACATTCATACCATAACTCTGTTCTCTCCT  
CTTTTTTGTTTTCACTTTAAAAACAAAAATAAACGATGATAATCTTACTGGTGAAAAGGATGGAAAAATAAAT  
CAACAAATGCAACCAGTTTGTGAGAAAAAAAAAAAAAAAAAGCCGAAAAAAAAAAAAAAAA

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**FIGURE 963**

MVPPQGWPPELEGGFQPPAPATHRLVRQGCHGNRQAPLKVGQYPGPIHSLRLRGLRPRMGTSEKSSKEKKPHSVRED  
MSGFQEKGGSVLQSGGGTRDRGFTSQQPGPCTVCVFKTTKVQELHCTVSPLFIFS

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**FIGURE 964**

GGCGAGGGAGGAGGAAGAAGCGGAGGAGGCGGCTCCCGCGCTCGCAGGGCCGTGCCACCTGCCCCGCCGCCCGCT  
CGCTCGCTCGCCCCGCCGCCCGCGCTGCCGACCGCCAGCATGCTGCCGAGAGTGGGCTGCCCCGCGCTGCCGCTG  
CCGCCGCCGCCCGCTGCTGCCGCTGCTGCTGCTACTGGGCGCGAGTGCGGCGGCGGCGGGGCGCGCGCGGAG  
GTGCTGTTCCGCTGCCCCGCCCTGCACACCGAGCGCCTGGCCGCTGCGGGCCCCCGCGGTTGCGCCGCCGCC  
GCGGTGGCCGCGAGTGCGCGGAGGCGCCCGCATGCCATGCGCGGAGCTCGTCCGGGAGCCGGGCTGCGGCTGCTGC  
TCGGTGTGCGCCCGGCTGGAGGGCGAGGCGTGCGGCGTCTACACCCCGCGCTGCGGCCAGGGGCTGCGCTGCTAT  
CCCCACCCGGGCTCCGAGCTGCCCCTGCAAGCGCTGGTTCATGGGCGAGGGCACTTGTGAGAAGCGCCGGGACGCC  
GAGTATGGCGCCAGCCCGGAGCAGGTTGCAGACAATGGCGATGACCACTCAGAAGGAGGCCCTGGTGGAGAACCAC  
GTGGACAGCACCATGAACATGTTGGGCGGGGAGGCAGTGCTGGCCGGAAGCCCCCTCAAGTCGGGTATGAAGGAG  
CTGGCCGTGTTCCGGGAGAAGGTCAGTGCAGCAGCACCGGCAGATGGGCAAGGGTGGCAAGCATCACCTTGGCCTG  
GAGGAGCCCAAGAAGCTGCGACCACCCCTGCCAGGACTCCCTGCCAACAGGAACTGGACCAGGTCCTGGAGCGG  
ATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACTGTGAC  
AAGCATGGCCTGTACAACCTCAAACAGTGCAAGATGTCTCTGAACGGGCAGCGTGGGGAGTGCTGGTGTGTGAAC  
CCCAACACCGGGAAGCTGATCCAGGGAGCCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAG  
CAGCAGGAGGCTCGCGGGGTGCACACCCAGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCTGCCC  
CCGCCCCCTCTCCAAACACCGGCAGAAAACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGA  
CACACGTATTTATATTTGGAAAGAGACCAGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCAGCTGCAGA  
TGCCACACCTGCTCCTTCTTGCTTTCCCCGGGGGAGGAAGGGGGTTGTGGTTCGGGGAGCTGGGGTACAGGTTTGG  
GGAGGGGGAAGAGAAATTTTTATTTTTGAACCCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGGAAAAGT

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**FIGURE 965**

AGCGGATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACT  
GTGACAAGCATGGCCTGTACAACCTCAAACAGTGCTGGTGTGTGAACCCCAACACCGGGAAGCTGATCCAGGGAG  
CCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAGCAGCAGGAGGCTCGCGGGGTGCACACCC  
AGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCTGCCCCCGCCCCTCTCCAAACACCGGCAGAAA  
ACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTCCAGTTCTGACACACGTATTTATATTTGGAAAGAGACC  
AGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCCAGCTGCAGATGCCACACCTGCTCCTTCTTGCTTTCCC  
CGGGGAGGAAGGGGGTTGTGGTCTGGGGAGCTGGGGTACAGGTTTGGGGAGGGGGAAGAGAAATTTTATTTTG  
AACCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGG

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**FIGURE 966**

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT  
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT  
GCTCTTTCTGTGGCAAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG  
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTACGGTAAAGTCCGCCATCAGAAGACTGAAGGAGT  
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 967**

MAKRTKKVGIVGKYGTRYGASLRKMVKKIEISQHAKEYTCSECGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS  
AVTVKSAIRRLKELKDQ

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**FIGURE 968**

CCCCCGCCACCTCACACACCCCCATCCGGGAGACCCACGTGCAGCTGGGCCCCGGGCTGGCGCCGCACCTCGGGG  
TCTGCGCGTCTCCCCGGCGCGTTCCGGGCGCAGCCCCACGACACGGACCCCTGGCGGGGCGGCATCCGAGAAGTC  
GCAGGCGGAGAGGGGGCGTCTGGAGGCCGGGCGCGGGGACGCTGCGGCCCGCGGCCACACAAAGGAGGCGGCGG  
GAAGGCGGGGCAAGGCGGGCCGGGGCGGGGCGGCAGGAAGGGGCGGGGGCCCCGCGCGGCGCCGCCGATAAAGC  
CCCCGCGCCCGCGGCAGCCAGCTTGCCTGTGGGGCTGCCCGGGCTGCGCGGCGTCTGCAGGCGCCACCGCTGCC  
TCTTTCCGGCTGTGACCCCTCCTCGCCGCCCGCTTGGCTGCGTCTCCGACTCCCCGCGCCGCCGAGACCAGGC  
TCCCGCTCCGGTTGCGGCCGCACCGCCCTCCGCGGCCGCCCTGGGGATCCAGCGAGCGCGGTCTGTCCTTGGTG  
GAAGGAACCATGAACCTGGCATCTCCCCCTCTTCTTGGCTCTGTGACGCTGCCTTCCATCTGCTCCCACTTC  
AATCCTCTGTCTCTCGAGGAACCTAGGCTCCAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCT  
CATGACAACATCGTGATCTCTCCCATGGGATTGCGTCCGTCTGGGGATGCTTCAGCTGGGGGCGGACGGCAGG  
ACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAAATATTAAAGAAGATCAACAAG  
GCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGIGTTTTGTTAAGAATGCCTCTGAAATT  
GAAGTGCCTTTTGTACAAAGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAATGTGAACCTTTGAGGATCCAGCC  
TCTGCCGTGTGATTCCATCAATGCATGGGTTAAAAATGAAACCAGGGATATGATTGACAATCTGCTGTCCCCAGAT  
CTTATTGATGGTGTGCTCACCAGACTGGTCTCTGTCACCGCAGTGTATTTCAAGGTCTGTGGAAATCACGGTTC  
CAACCCGAGAACACAAAGAAACGCACTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCAATGCTGGCCAG  
CTCTCCGTGTTCCGGTGTGGGTGCGACAAGTGCCCCAATGATTTATGGTACAACCTTCATTGAACCTGCCCTACCAC  
GGGGAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTCTGCCATCATCCACACATC  
AGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCCAAGTTCACA  
GCTGTAGCACAACAGATTTGAAGGAGCCGCTGAAAGTTCTTGGCATTACTGACATGTTTGATTTCATCAAAGGCA  
AATTTTGCAAAATAACAAGGTCAGAAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAATTGAAGTCAGT  
GAAGATGGAACCAAGCTTCAGCAGCAACAACCTGCAATTCTCATTTGCAAGATCATCGCCTCCCTGGTTTATAGTA  
GACAGACCTTTTCTGTTTTTTCATCCGACATAATCCTACAGGTGCTGTGTTATTTCATGGGGCAGATAAACAAACCC  
TGAAGAGTATACAAAAGAAACCATGCAAGCAACGACTACTTTGCTACGAAGAAAGACTCCTTTCTGCACTTTT  
CATAGTTCTGTAAATATTTTTGTACATCGCTTCTTTTTCAAACTAGTTCTTAGGAACAGACTCGATGCAAGTG  
TTTCTGTTCTGGGAGGTATTGGAGGGAAAAACAAGCAGGATGGCTGGAACACTGTACTGAGGAATGAATAGAAA  
GGCTTCCAGATGTCTAAAAGATTCTTTAACTACTGAACTGTTACCTAGGTAAACAACCTGTTGAGTATTTGCT  
GTTTGTCCAGTTCAGGAATTTTTGTTTTGTTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCAGTGTGA  
CAGAAAAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAATTTATTTGCCTTTTAAATCTTTTCCC  
CCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTGGTGGTAGAAACGGTGAAATCTCTAGCCTCTTTGTGT  
TTTTGTGTTGTTGTTGTTGTTGTTTATATAATGCATGTATTCACTAAAAATAAAATTTAAAAAACTCCTGTCTT  
GCTAGACAAGGTGCTGTGTGTCAGTGTGCCTGTCACTACTGGTCTGTACTCCTTGGATTGTCATTTTTGTATTT  
TGTAACAAGTAAAAATAAACTGTTATGAGTAGT



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**FIGURE 969**

MNWHLPFLLLASVTLPSSICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGIASVLGMLQLGADGRTKK  
QLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTVANAVFVKNASEIEVPFVTRNKDVFQCEVRNVNFEDPASAC  
DSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLVNAVYFKGLWKSRLFQENTKKRTFVAADGKSYQVPMLAQLSV  
FRCGSTSAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAIIPHISTKTIDSWMSIMVPKRVQVILPKFTAVA  
QTDLKEPLKVLGITDMFDSSKANFAKITRSENHVSILQKAKIEVSEDTKASAATTAILIARSSPPWFIVDRP  
FLFFIRHNPTGAVLFMGQINKP

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**FIGURE 970**

ATGCGTGCTGAAAAAGAGAAAAAAGAATGCCCCAGAGGAGGTCAGCAGGCTTAAAAGTATTCTCAAACCTAGACGAT  
GACGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATG  
CAATGTGAGGTAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAACAAAAAGACTCTTCTA  
GACCAGCATGGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTAAAGGCAAAGCGAGAGAAAAGA  
AAGGAGAAAAACAAAGCAAAAGCAGTGAAGTGGCAAAGGGTTTGGCCTGTAGTATTGTTTCCATAATAGTCCAT  
TTCGCAGAAATAAGAAGGAGAATAAACTTAGAGAAAAAGAGGAGGCCAAAAGGGGCAAGGTAGTGGCTACTTGC  
AGAAACCTGAAAAATATGTGTGACAAAGCCGCCATAATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCAGGGGC  
ACCGCAGCCTCCCCGGGCCCTACGGCCGCCCGCCAGCAGGATGGCTGGAATGGCCTTAGTCATGAGGCTTTTAGA  
ATTGTTTCAAGGCAGGATTATGCGTCAGAAGCAATCAATGGAGCAGCTGGTGGTGTATTATTGGGTACTACCAAC  
TCCTGTGTGGCAGTTATGGAAGGTAAACAAGCAAAGGTGCTGGAGAATGCCGAAGGTGCCAGAACTACCCCTTCA  
GTTGTGGCCTTTACAGCAGATGTACAGAAAGACATTAAAAATATTCCCTTTAAAAATTGTCTGTGCCTCCAATGGT  
GATGCCTGGGTTGAGGCTCATGGGAACTGTATTCTCCAAGTCAGATCGGAGCATTGTGTGTCGATGAAGATGAAA  
GAGACTGCAGAAAAATTACTTGGGGCACACAGCAAAAAATGCTGTGATCGCAGTCCCAGCTTATTTCAATGACTTG  
CAGAGGCAGGCCACTAAAGATGCTGGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAACCCACAGCT  
GCTGCTCTTGCCATGGTCTAGACAAATCAAAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTT  
GATATTTCTATCCTGGAATTTAGAAAAGGAGTATTCGAGGTGAAATCCACAAATGGGGACACTTTCTTAGGTGGG  
GAAGACTTTGACCAGGCCTTGCTACAGCACATTGTGAAGGAGTTCAAGAGAGAGACGGGGGTTGATTTGACCAA  
GACAACGTGGCATTTCAGAGGGTGTGGGAAGCTGCTGAAAAGGCTAAATGTGAACCTCCTCATCTGTGCAGACT  
GACATCAATTTGCCCTATCTTACAATGGATTCTTCTGGACCCAAGCATTTGAATACAAAGTTGACCCATGCTCAA  
TTTGAAGGGATTGTCACTGATCTAATCAGGAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAGAAGTC  
AGCAAGAGTGATATAGGAGAAGTGATTCTTGTGGAGCCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCC  
ATTGGAGCTGCCATTTCAGGGAGATGTGTTGGCCGGCGATGTCACAGATGTGCTGCTCCTTGATGTCAATCCCCTG  
TCTCTGGGTATTGAACTCTGCGAGGTGTCTTTACCAAACCTATTAAATAGGAATACCACTATTCCAACCAAGAAG  
AGCCAGGTATTCTCAACTGCTGCTGATGGGCAGACACAAGTGGAAATTAAAGTGTGTCAGGGTGAGAGAGAGATG  
GCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATTCCACCAGCCCCTCGTGGAGTTCCTCAGATC  
AAAGTTACATTTGACATTGATGCCAATGGGATCATAATGTTTCAGCTAAAGATAAAGGCACAGGACATGAGCAG  
CAGATTGTAATCCAGTCTTCTGGTGGGTAAAGCAAAGATGATGTTGAAAATATGGTTAAAAATGCAGAGAAATAT  
GCTAAGGAAGACCAGCGAAGGAAGGAATGA

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**FIGURE 971**

CGGAGCTGTCCATCAGCACCAAAGGCCGCGGGCGGGCTCAGGGCATGGGGCCGCGGTTCTGGGGCGGGCCGAGCC  
CCGGCTCCTGCGCCTTCCCCTTCCTCAGGCCAGCCCAGATTCCCGGACGCCGCGGGACTGGAGTGCCAGCCGGT  
GTTGGACGTGGAGCGGGCGCCGCCACCGCGCCGACACCATTCTCTCCGGCCCAGCAGCCCCCTTCCTCGCACGACG  
GACTTTCCTTGGACCCAGTCAGTTGGAGCCTCTGGCGCCCCGCAACCCCGGCCCTCGGGCCTCTGCACAGCCT  
CTTTCACCTCAGAAGCTCAGGTCGCCCTCCAGCCCAGCACTATGCCGGGACTGTGGCAACACTGCGGTTCCAGCTG  
CTGCCCCCTGAGCCAGATGATGCCCTTCTGGGGTGCACCTTGTGAACAGCCCCCTGGAGCGCAGGTACCAGGCACTG  
CCGGCCCTCGTCTGCATCATGTGCTGTTTGTGGAGTCGTCTACTGCTTCTTCGGTTACCGCTGCTTCAAGGCA  
GTGCTCTTTCTCACTGGGTTGCTGTTTGGCTCGGTGGTCATCTTCCTCCTCTGCTACCGAGAGCGGGTGCTAGAG  
ACACAGCTGAGTGCTGGGGCGAGCGCGGGCATCGCTCTGGGCATCGGGCTGCTCTGCGGGCTGGTGGCCATGCTA  
GTGCGCAGCGTGGGCCCTCTTCCTGGTGGGGCTGCTGCTCGGCCTGCTGCTCGCAGCTGCTGCCCTGCTGGGCTCC  
GCACCCTACTACCAGCCAGGCTCCGTGTGGGGTCCACTGGGGCTGTTGCTGGGGGGCGGCCCTGCTCTGTGCCCTG  
CTCACTCTGCGCTGGCCCCGCCCACTACCAACCTGGCCACCGCCGTGACTGGTGCTGCGCTGATCGCCACTGCC  
GCTGACTACTTCGCCGAGCTGCTACTGCTGGGGCGCTACGTGGTGGAGCGACTCCGGGCTGCTCCTGTGCCCCCA  
CTCTGCTGGCGAAGCTGGGCCCTGCTGGCACTCTGGCCCCCTGCTCAGCCTGATGGGCGTTCTGGTGCAGTGGAGG  
GTGACAGCTGAGGGGGACTCCCACACGGAAGTGGTCATCAGCCGGCAGCGCCGACGCGTGCAACTGATGCGGATT  
CGGCAGCAGGAAGATCGCAAGGAGAAAAGGCGGAAAAGAGACCTCCTCGGGCTCCCCCTCAGAGGTCCCCGGGCT  
CCTCCCAGGCCTGGGCCACCAGACCCTGCTTATCGGCGCAGGCCAGTGCCCATCAAACGCTTCAATGGAGACGTC  
CTCTCCCCGAGCTATATCCAGAGCTTCCGAGACCGGCAGACCGGGAGCTCCCTGAGCTCCTTCATGGCCTCACCC  
ACAGATGCGGACTATGAGTATGGGTCCCGGGGACCTCTGACAGCCTGCTCAGGCCCCCAGTGCGGGTATAGCCA  
TATCTGTCTGTCTAGACTCTGCAGTACCAGCTCTGCCAGCTCGAGGAGGCTGCTAGGCTGCCACTCAGCCTCC  
TGGCTTTGGCTGTCCCTCTCCCCAGCCTGGAGAGGGCTGGCCTGGTCACTAGAAGGGAGGATTGTCTCAGGCGAG  
TCTTGGCCTGAGAGGAAAGCCCCCTCCAAGCTCCAAGAGGCTCCTGAGGAACTCGGGGTGTGAACCCCATTTGG  
GGTGTGCTCAGGGTTGTGAGTGTGTTGCCGTGTGTCTGTGTGTATGTGTGTGGGGGTGGGCAGGCTTGGAGGGG  
ACGCTGGGACCCTTGCCCTTAGATTTCTGACTGGTAGGGTTTCTCCAGGCTCAGCCCCACCTCTTCACTCCCTGCC  
AAGGTCCCATGGGCCACCTCCTGCATGTCTCCGCGGAGGGGCTACCTTCCTTCCCATCGCCCTGCCCTGCAGCCA  
GACTCATCTAAGGGTTCTTGTCTTGTCTATGGGGCAAAGTGTAGCATCCCTCACCTGGTCCCCTGGCCTCTGT  
AAAGCCACCAGCCTGAGGGCAGTGGCAGGAGATGGGGTGGGGGGTGCTGCTCTGGGCTGGGTTGGGAAGGGAG  
TTGGGGAGGGGTTTAAATGCACGGTGCATGTCTGGTGTCTGTGATGCCAACCTAGACACCTCATGCTTCTGTCTC  
CCCCACCCCACTCTGTTTTACATCTTTTATAAATGTGCCAAAGTGTGTGGCCTCTGCCA

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**FIGURE 972**

MPGTVATLRFQLLPPEPDDAFWGAPCEQPLERRYQALPALVCIMCCLFGVVYCFFGYRCFKAVLFLTGLLFGSVV  
IFLLCYRERVLETQLSAGASAGIALGIGLLCGLVAMLVRSVGLFLVGLLLGLLLAAAALLGSAPYYQPGSVWGPL  
GLLLGGGLLCALLTLRWPRPLTTLATAVTGAALIATAADYFAELLLLGRYVVERLRAAPVPPLCWRSWALLALWP  
LLSLMGVLVQWRVTAEGDSHTEVVISRQRRRVQLMRIRQEDRKEKRRKKRPFRAPLRGPRAPPRPGPPDPAYRR  
RPVPIKRFNGDVLSPSYIQSFRDRQTGSSLSSFMASPTDADYEYGSRGPLTACSGPPVRV

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**FIGURE 973**

CGGAGCACATGCTGAGCGGAGCGGCTGGGGCTGCGCGGCGTGGCGGAGCAGCGCTCGCTCCCTCGCTCACTCGCT  
CGCTCGCAGGGACACACGCAGGGGCTGACAGCTGTGCTGGTGTCTGATAAGGGAAGCCACAAGGAGACGATCGAGG  
AGAGAGACAAGCGGCAGCAGAGGCAGCAGCGGCAGAGGCAGCACCAGGGCTGCGGAGCTGCTGGGAGTGGGAGTG  
ACTCCCCACCTCGGGCCCCCACCCTGTCCCTGTCTCTTCCCGCTTGCCCTGAGTTTAGAAGAGCAGCCGCTGC  
CACCCTGCCACTCGGGAGGGCACCAGGGCTGCTGGCTAGGGAGGGACAGGGCAGGGAGGCTCTGGCCAGTCCCA  
GCAGCCGGGGACAGATGCCGATCGAGATTGTGTGCAAAATCAAATTTGCTGAGGAGGATGCGAAACCCAAGGAGA  
AGGAGGCAGGGGATGAGCAGAGCCTCCTCGGGGCTGTTGCCCTGGAGCAGCCCCCGAGACCTGGCCACCTTTG  
CCAGCACCAGCACCCTGCATGGACTGGGCCGGGCTGTGGCCAGGCCCCACGGAATGCGCAGAACCCTGTGGG  
CACTGGCCCTACTCACCTCGCTGGCTGCCTTCTGTACACAGGCGGCTGGCCTGGCCCGGGGCTACCTGACCCGGC  
CTCACCTGGTGGCAATGGACCCCGCTGCCCCAGCCCCAGTGGCGGGCTTCCCGGCTGTACCCCTCTGCAATATCA  
ACCGCTTCCGGCATTCCGGCACTCAGCGATGCCGACATCTTCCACCTGGCCAATCTGACAGGGCTGCCCCCAAAG  
ACCGGGATGGGCACCGTGC GGCTGGCCTGCGCTACCCAGAGCCTGACATGGTAGACATCTCAACCGCACTGGCC  
ACCAGCTCGCCGACATGCTTAAGAGCTGCAACTTCAGTGGGCATCACTGCTCCGCCAGCAACTTCTCTGTGGTCT  
ATACTCGCTATGGGAAGTGTTACACCTTCAACGCGGACCCGCGGAGCTCGCTGCCAGCCGGGCAGGGGGCATGG  
GCAGTGGCCTGGAGATCATGCTGGACATCCAGCAGGAGGAGTACCTGCCATCTGGAGGGAGACAAATGAGACGT  
CGTTTGAGGCAGGTATTCGGGTGCAGATCCACAGCCAGGAGGAGCCGCCCTACATCCACCAGCTGGGGTTCGGGG  
TGTCGCCAGGCTTCCAGACCTTTGTGTCTGCCAGGAACAGCGGCTGACCTACCTGCCCGAGCCCTGGGGCAACT  
GCCGCGCAGAGAGTGAGCTCAGGGAGCCTGAGCTTCAGGGCTACTCGGCCTACAGTGTGTCTGCCTGCCGGCTGC  
GCTGTGAAAAGGAGGCCGTGCTTCAGCGCTGCCACTGCCGATGGTGCACATGCCAGGCAATGAGACCATCTGCC  
CACCAAATATCTACATCGAGTGTGCAGACCACACACTGGACTCCCTGGGTGGGGGCCCTGAGGGCCCGTGCTTCT  
GCCCCACCCCTGCAACCTGACACGCTATGGGAAAGAGATCTCCATGGTTCAGGATCCCCAACAGGGGCTCAGCCC  
GGTACCTGGCGAGGAAGTACAACCGCAACGAGACCTACATACGGGAGAACTTCTGGTCTAGATGTCTTCTTTG  
AGGCCCTGACCTCTGAAGCCATGGAGCAGCGAGCAGCCTATGGCCTGTGAGCCCTGCTGGGAGACCTCGGGGGAC  
AGATGGGCCTGTTTATTGGGGCCAGCATCCTCACGTTGCTGGAGATCCTCGACTACATCTATGAGGTGTCTGGG  
ATCGACTGAAGCGGTATGGAGGCGTCCCAAGACCCCCCTGCGGACCTCCACTGGGGGCATCTCCACTTTGGGGC  
TTCAGGAGCTGAAGGAACAGAGTCCCTGCCCAGGAGGTCTCTTTGAAGATTTTGCTTGCTAGGACGGTGTGTGACTG  
AAAGGACCCAGGAGTCTGGGACCCCTCCTGGGATCCCCAGCACATTCTCCTGCTCCTGGGAGAGGCCTGGGGGCG  
GTGCTCACTGGGAGGGCCAGGACTCAGTTCCTGCTCTCATCCTCCCTGCCCTGATGTGAGCTGCTTTGCACAAA  
GGTCTTCTTGTCCACACCCCTTATCCCCAGGCTGGTGGCCGGGAGGGCTGGAGACCAGGCCATGGGGCCCTCAC  
GGAGAGGAAGGGAAGGAAGGAGAGGGAGGGGGAGGATAGAGCCCATCCCAGCCGGGAGGGGGAGCCCTCTGTAC  
ATTTGTAAATATTTAGGGAAAGCCGGGTGGGGGGAGGGGATACAGATGTAGAAGGTGGGTAGGGCTACAGGGGTG  
GGTGATTTAGGGACAGCCAGGGTCCCAGCCCCAATGTGAGCAGGATAGGGAGAGCCCCAGGACTCAGGAGTGTG  
GGCTGGTCTTACTTCTGCCCTCTCCAGGCCAGCTCCCTCTTGGCAGGGGGAGAGGATGGCCAGCAGGCCT  
GGCCAGCTCCAGTTCCCCCTGCACCAGCCCCACCCCTAGAGTCCCTTCTATAGGGAGGGGGCAGGAGACCTTC  
CAGACTTCGGCTGAGCTTGGAGGGTGGGAAGGGAGCCTTCTCAGTCTCTCTCCCTCCAGTCTGATTTTATAAAG  
TGCTGACGAG

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**FIGURE 974**

MPIEIVCKIKFAEEDAKPKEKEAGDEQSLLGAVAPGAAPRDLATFASTSTLHGLGRACGPGPHGLRRTLWALALL  
TSLAAFLYQAAGLARGYLTRPHLVAMDPAAPAPVAGFPAVTLCNINRFRHSALSDADIFHLANLTGLPPKDRDGH  
RAAGLRYPEPDMVDILNRTGHQLADMLKSCNFSGHHCSASNFSVVYTRYGKCYTFNADPRSSLPSRAGGMGSGLE  
IMLDIQQEEYLPWRETNETSFEAGIRVQIHSQEEPPYIHQLGFGVSPGFQTFVSCQEQRITYLPQPWGNCRAES  
ELREPELQGYSAVSACRLRCEKEAVLQRCRCRMVHMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCPTPC  
NLTRYGKEISMVRIPNRGSARYLARKYNRNETYIRENFLVLDVFFEALTSEAMEQRAAYGLSALLGDLGGQMGLF  
IGASILTLEILDYIYEVSWDRLKRVWRRPKTPLRTSTGGISTLGLQELKEQSPCPSLGRAEGGGVSSLLPNHHH  
PHGPPGGLFEDFAC

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**FIGURE 975**

CCTCGCCGCATCCACTCTCCGGCCGGCCGCCTGCCCGCCGCCTCCTCCGTGCGCCCGCCAGCCTCGCCCGCGCCG  
TCACCATGAGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCTCCTACCGCCGCACCTTCGGCGGGGGCCCCGGGCT  
TCCCACTCGGCTCCCCGCTGAGTTCGCCCCTGTTCCCGCGGGCGGGTTTCGGCTCTAAGGGCTCCTCCAGCTCGG  
TGACGTCCCGCGTGTACCAGGTGTCGCGCACGTCCGGCGGGGCGGGGGCCTGGGGTTCGCTGCGGGCCAGCCGGC  
TGGGGACCAACCGCACGCCCTCCTCCTACGGCGCAGGCGAGCTGCTGGACTTCTCACTGGCCGACGCGGTGAACC  
AGGAGTTTCTGACCACGCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTCAATGACCGCTTCGCCAACTACATCG  
AGAAGGTGCGCTTCTTGGAGCAGCAGAACGCGGCGCTCGCCGCCGAAGTGAACCGGCTCAAGGGCCGCGAGCCGA  
CGCGAGTGGCCGAGCTCTACGAGGAGGAGCTGCGGGAGCTGCGGCGCCAGGTGGAGGTGCTCACTAACCAGCGCG  
CGCGCGTCGACGTGAGCGCGACAACCTGCTCGACGACCTGCAGCGGCTCAAGGCCAAGCTGCAGGAGGAGATTC  
AGTTGAAGGAAGAAGCAGAGAACAATTTGGCTGCCCTCCGAGCGGACGTGGATGCAGCTACTCTAGCTCGCATTG  
ACCTGGAGCGCAGAATTGAATCTCTCAACGAGGAGATCGCGTTTCCTTAAGAAAGTGCATGAAGAGGAGATCCGTG  
AGTTGCAGGCTCAGCTTCAGGAACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCC  
TCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCTGAAGCTGAGGAGTGGTACAAGTCGA  
AGGTGTCAGACCTGACCCAGGCAGCCAACAAGAACAACGACGCCCTGCGCCAGGCCAAGCAGGAGATGATGGAAT  
ACCGACACCAGATCCAGTCTTACACCTGCGAGATTGACGCCCTGAAGGGCACTAACGATTCCTGATGAGGCAGA  
TGCGGGAATTGGAGGACCGATTTGCCAGTGAGGCCAGTGGCTACCAGGACAACATTGCGCGCCTGGAGGAGGAAA  
TCCGGCACCTCAAGGATGAGATGGCCCCGCATCTGCGCGAGTACCAGGACCTGCTCAACGTGAAGATGGCCCTGG  
ATGTGGAGATTGCCACCTACCGGAAGCTGCTGGAGGGAGAGGAGAGCCGGATCAATCTCCCCATCCAGACCTACT  
CTGCCCTCAACTTCCGAGAAACCAGCCCTGAGCAAAGGGTTCTGAGGTCCATACCAAGAAGACGGTGATGATCA  
AGACCATCGAGACACGGGATGGGGAGGTTCGTAGTGAGGCCACACAGCAGCAGCATGAAGTGCTCTTAAAGACAGA  
GACCCTCTGCCACCAGAGACCGTCTCTACCCCTGTCTCACTGCTCCCTGAAGCCAGCCTTCTTCCATCCCAGGA  
CACCACACCCAGCCTCAGTCTTCCCTCACAGCCTCTGACCCCTCCTCACTGGCCATCCCTCGTGGTCCCCAACA  
GCGACATAGCCCATCCCTGCCTGGTTCACAGGGCATGCCCCGGCCACCTCTGCGGACCCAGCTGTGAGCCTTGGC  
TGTTGGCAGTGAGTGAGCCTGGCTCTTGTGCTGGATGGAGCCCAGGCGGGAGCGGTGGCCCTGTCCCTCCCACCT  
CTGTGACCTCAGGCACTAGCCTTTGGCTCTGGAGACAGCCCCAGAGCAGGGTGTGGGATACTGCAGGGCCAGGA  
CTGAGCCCCGCAGACCTCCCCAGCCCTAGCCCAGGAGAGAGAAAGCCAGGCAGGTAGCCAGGGGGACTAGCCCC  
TGTGGAGACTGGGGGGCTTGAAATTGTCCCCGTGGTCTCTTACTTTCCCTTTCCCCAGCCCAGGGTGGACTTAGAA  
AGCAGGGGCTACAAGAGGGAATCCCCGAAGGTGCTGGAGGTGGGAGCAGGAGATTGAGAAGGAGAGAAAGTGGGT  
GAGATGCTGGAGAAGAGAGGAGAGAGAGAGGCAGAGAGCGGTCTCAGGCTGGTGGGAGGGGGCGCCACCTCCCC  
ACGCCCTCCCCTCCCCTGCTGCAGGGGCTCTGGAGAGAAACAATAAGAGATTACACACAAGCC

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**FIGURE 976**

MSQAYSSSQRVSSYRRTFGGAPGFPLGSPVFPFRAGFGSKGSSSVTSRVYQVSRTSGGAGGLGSLRASRLG  
TTRTPSSYGAGELLDLDFSLADAVNQEFLLTTRTNEKVELQELNDRFANYIEKVRFLQQAALAAEVNRLKGREPTR  
VAELYEELRELRQVEVLTNQARVDVERDNLDDLQRLKAKLQEEIQLKEEAENNLAAFRADVDAATLARIDL  
ERRIESLNEEIAFLKKVHEEEIRELQAQLQEQVQVEMDMSKPDLTAAALRDIRAQYETIAAKNISEAEWYKSKV  
SDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRELEDRFASEASGYQDNIAARLEEEIR  
HLKDEMARHLREYQDLLNVKMALDVEIATYRKLLEGEESRINLP IQTYSALNFRETSPEQRGSEVHTKKTVMIKT  
IETRDGEVVSEATQQQHEVL



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**FIGURE 977**

GCACGAGGGTGATGAAGGCCTACGAGTGCGGGCGGGCCTGAAGGGGCACGCGGGGGACCTGCAAAGCTAGTGAGG  
GGCGGGGCAGGCGGGCGGGTGGGGGCGGGCCGAGCCCGAGGGCCAGATGAGCGGACACAGCCCCACGCGCGGGGC  
**CATG**CAGGTGGCCATGAACGGTAAGGCCCGCAAAGAGGCGGTGCAGACTGCGGGCTAAGGAACTCCTCAAGTTCGT  
GAACCGGAGTCCCTCTCCTTTCCATGCTGTGGCTGAATGCCGCAACCGCCTTCTCCAGGCTGGCTTCAGTGAAC  
CAAGGAGACTGAGAAATGGAATATTAAGCCCGAGAGCAAGTACTTCATGACCAGGAACTCCTCCACCATCATAGC  
TTTTGCTGTAGGGGGCCAGTACGTTCCCTGGCAATGGCTTCAGCCTCATCGGGGGCCACACGGACAGCCCCTGCCT  
CCGGGTGAAACGTCCGTCTCGCCGCAGCCAGGTGGGCTTCCAGCAAGTCCGTGTGGAGACCTATGGTGGTGGGAT  
CTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGCTGGACGCGTCATTGTCAAGTGCCCTACCTCAGGTCCGGCT  
GGAGCAGCAGCTGGTGCACGTGGAGCGGCCATTCTTCGCATCCACACCTGGCCATCCATCTGCAGCGAAATAT  
CAACGAGAAGTTTGGGCCCCAACACAGAGATGCATCTAGTCCCCATTCTTGCCACAGCCATCCAGGAGGAGCTGGA  
GAAGGGGACTCCTGAGCCAGGGCCTCTCAATGCTGTGGATGAGCGGCACCATTCGGTCCCTCATGTCCCTGCTCTG  
TGCCCATCTGGGGCTGAGCCCCAAGGACATAGTGGAGATGGAGCTCTGCCTTGACAGACACCAGCCTGCGGTCTT  
GGGTGGTGCTATGATGAGTTCATCTTTGCTCCTCGGCTGGACAATCTGCACAGCTGCTTCTGTGCCCTGCAGGC  
CTTGATAGATTCTGTGCAGGCCCTGGCTCCCTGGCCACAGAGCCTCACGTGCGCATGGTCACACTCTATGACAA  
CGAAGAGGTGGGGTCTGAGAGTGACAGGGAGCACAGTCACTGCTGACAGAGCTGGTGTCTGCGGCGGATCTCAGC  
CTCGTGCCAGCACCCGACAGCCTTCGAGGAAGCCATACCCAAGTCCTTCATGATCAGCGCAGACATGGCCCATGC  
TGTGCATCCCAACTACCTGGACAAGCATGAGGAGAACCACCGGCCTTTATTCCACAAGGGCCCCGTGATCAAGGT  
GAACAGCAAGCAACGCTATGCTTCAAACGCGGTGTCAGAGGCCCTGATCCGAGAGGTGGCCAACAAAGTCAAGGT  
CCCCCTGCAGGATCTCATGGTCCGGAATGACACCCCTGTGGAACCAACATTGGACCTATCTTGGCTTCTCGGCT  
GGGGCTGCGGGTGCTGGATTTAGGCAGCCCCCAACTGGCCATGCACTCTATCCGGGAGATGGCCTGCACCACAGG  
AGTCCTCCAGACCTCACCCCTCTCAAGGGCTTCTTTGAGCTGTTCCCTTCTCTAAGCCATAATCTCTTAGTGGA  
**TTGA**GCCCTCTTGAAAGACTTCTCTGCCATCCCTTTGCACCTGAGAGGGGAAGTTCTCAGCTGAGCTGAAGCTG  
GATTATTAAAGTGGATTGTCACTCAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 978**

MQVAMNGKARKEAVQTAAKELLKFVNRSPSPFHAVAECNRLLQAGFSELKETEKWNIKPESKYFMTRNSSTIIA  
FAVGGQYVPGNGFSLIGAHTDSPCLRVKRRSRRSQVGFQQVGVETYGGGIWSTWFDRLTLAGRVIVKCPTSGRL  
EQQLVHVERPILRIPHLAIHLQRNINENFGPNTEMHLVPILATAIQEELEKGTPEPGPLNAVDERHHSVLMSSLC  
AHLGLSPKDIVEMELCLADTQPAVLGGAYDEFIFAPRLDNLHSCFCALQALIDSCAGPGSLATEPHVRMVTLYDN  
EEVGSESAQGAQSLLTELVLRRIASACQHPTAFEEAIPKSFMISADMAHAVHPNYLDKHEENHRPLFHKGPVIKV  
NSKQRYASNAVSEALIREVANKVKVPLQDLMVRNDTPCGTTIGPILASRLGLRVLDLIGSPQLAMHSIREMACTTG  
VLQTLTLFKGFFELFPSLSHNLVD

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**FIGURE 979**

CTTTGCATTGTTCTCATCCGCCCTCCTTGCTCGCCGCGAGCCGCTCCGCCGCGCGCCTCCTCCGCCGCCGCGGAC  
TCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCCTGCATCGGATCACCGGCGTGCC  
CCACCATGTCAGACGCGAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACTTAAAGGAGAAGAAGGAAGTTG  
TGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGGGAGCAGGAGGCTG  
ACAATGAGGTAGACGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGTGATGGTGAGGAAG  
AGGATGGAGATGAAGATGAGGAAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAAGATGATGAGGATGACGATG  
TCGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAAACTAAAAAAAAAAG  
GCCGCCGTGACCTATTCACCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCGAGTAGAGAGGCCCGC  
CCGCCCACCGTGGGCAGTGCCACCCGCGAGATGACACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCA  
ACAGGGGAGGAAAAAAGAACCAAACTTCCAAGGCCCTGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTG  
TTTGTATTTTTTATTTACATTTTATATTTTGTACATATTGTTAGGGTCAGCCATTTTTTAATGATCTCGGATGAC  
CAAACCAGCCTTCGGAGCGTTCTCTGTCTACTTCTGACTTTACTTGTGGTGTGACCATGTTTATTATAATCTCA  
AAGGAGAAAAAAACCTTGTAAGGCAAAAAATGACAACAGAAAAACAATCTTATTCCGAGCATTCCAGTAAC  
TTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAAGATAAAAG  
GTTTCTTTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATTTTTTTTGGCCTGTTTGATGTATGTGTGAAAC  
AATGTTGTCCAACAATAACAGG

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**FIGURE 980A**

GCGGCAAGCCCCGCTCAGCCCCCTCTGGCAGGCTCCCGCCAGCGTCGCTGCGGCTCCGGCCCCGGGAGCGAGCGCC  
CGGAGCTCGGAAAGATGCGGCGCCCCGCGGCGGCTGGGGGTCTCGGGGGATCCGGGGGTCTCCGGCTGCTCCTCT  
GCCTCCTGCTGCTGAGCAGCCGCCCGGGGGGCTGCAGCGCCGTTAGTGCCACGGCTGTCTATTTGACCGCAGGC  
TCTGCTCTCACCTGGAAGTCTGTATTCAGGATGGCTTGTGTTGGGCAGTGCCAGGTGGGAGTGGGGCAGGCCCGGC  
CCCTTTTGCAAGTCACCTCCCCAGTTCTCCAACGCTTACAAGGTGTGCTCCGACAACCTCATGTCCCAAGGATTGT  
CCTGGCACGATGACCTCACCCAGTATGTGATCTCTCAGGAGATGGAGCGCATCCCCAGGCTTCGCCCCCAGAGC  
CCCGTCCAAGGGACAGGTCTGGCTTGGCACCCAAGAGACCTGGTCCTGCTGGAGAGCTGCTTTTACAGGACATCC  
CCACTGGCTCCGCCCCCTGCTGCCCAGCATCGGCTTCCACAACCACAGTGGGCAAAGGTGGAGCTGGGGCCAGCT  
CCTCTCTGTCCCCCTCTGCAGGCTGAGCTGCTCCCGCCTCTCTTGAGACCTGCTGCTGCCCCACAGCCTCCCC  
ACCCTTCACTGAGTTACGAACCTGCCTTGCTGCAGCCCTACCTGTTCCACCAGTTTGGCTCCCGTGATGGCTCCA  
GGGTCTCAGAGGGCTCCCCAGGGATGGTCAGTGTGCGCCCCCTGCCCAAGGCTGAAGCCCCCTGCCCTCTTCAGCA  
GAACTGCCTCCAAGGGCATATTTGGGGACCACTTGGCCACTCCTACGGGGACCTTCCAGGGCCTTCACTGCCC  
AGCTTTTTCAAGACTCTGGGCTGCTCTATCTGGCCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTGCCAAGGC  
TGCCAGAGCAAGGGAGCAGCAGCCGGGCAGAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGTG  
GAGAGAAGCCTGCTTCCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGCGGGCTATG  
GGGTAGAGCTGCGTCAGCTGACCCCTGAGCAGCTCTCCACACTCCTGACCCTGCTGCAGCTACTGCCCAAGGGTG  
CAGGAAGAAATCCGGGAGGGGTTGTAAATGTTGGAGCTGATATCAAGAAAACAATGGAGGGGCCGGTGAGGGCA  
GAGACACAGCAGAGCTTCCAGCCCGCACATCCCCATGCCTGGACACCCCACTGCCAGCCCTACCTCCAGTGAAG  
TCCAGCAGGTGCCAAGCCCTGTCTCCTCTGAGCCTCCCAAAGCTGCCAGACCCCTGTGACACCTGTCTCTGCTAG  
AGAAGAAAAGCCCACTGGGCCAGAGCCAGCCACGGTGGCAGGACAGCCCTCAGCCCGCCAGCAGCAGAGGAAT  
ATGGCTACATCGTCACTGATCAGAAGCCCTGAGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGC  
ATGTGCACATGTCTCAGGCAGCTTCATCAACATCAGTGTGGTGGGACCAGCCCTCACCTTCCGCATCCGGCACA  
ATGAGCAGAACCTGTCTTTGGCTGATGTGACCCAACAAGCAGGGCTGGTGAAGTCTGAACTGGAAGCACAGACAG  
GGCTCCAAATCTTGACAGACAGGAGTGGGACAGAGGGAGGAGGCAGCTGCAGTCCTTCCCCAACTGCGCACAGCA  
CCTCACCCATGCGCTCAGTGTCTCACTCTGGTGGCCCTGGCAGGTGTGGCTGGGCTGCTGGTGGCTCTGGCTG  
TGGCTCTGTGTGTGCGGCAGCATGCGCGGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGGCCTGAGGGGGCCC  
ATGGTGACACTACCTTTGAGTACCAGGACCTGTGCCGCCAGCACATGGCCACGAAGTCCTTGTTCACCGGGCAG  
AGGGTCCACCGGAGCCTTACGGGTGAGCAGTGTGTCTCCAGTTTACGCGACGAGCCAGCCAGCCAGCCAGCT  
CCCACAGCAGCACCCCGTCTGGTGCAGGAGCCGGCCCCAAGCCAACATGGACATCTCCACGGGACACATGATTC  
TGGCATAACATGGAGGATCACCTGCGGAACCGGGACCGCTTGCCAAGGAGTGGCAGGCCCTCTGTGCCTACCAAG  
CAGAGCCAAACACCTGTGCCACCGCGCAGGGGGAGGGCAACATCAAAAAGAACCGGCATCCTGACTTCTTGCCT  
ATGACCATGCCCCGATAAACTGAAGGTGGAGAGCAGCCCTTCTCGGAGCGATTACATCAACGCCAGCCCCATTA  
TTGAGCATGACCCCTCGGATGCCAGCCTACATAGCCACGCAGGGCCCGCTGTCCCATACCATCGCAGACTTCTGGC  
AGATGGTGTGGGAGAGCGGCTGCACCGTCATCGTCATGCTGACCCCGCTGGTGGAGGATGGTGTCAAGCAGTGTG  
ACCGCTACTGGCCAGATGAGGGTGCCTCCCTCTACCACGTATATGAGGTGAACCTGGTGTGCGGAGCACATCTGGT  
GCGAGGACTTTCTGGTGCAGGCTTCTACCTGAAGAACGTGCAGACCCAGGAGACGCGCACGCTCACGCAGTTCC  
ACTTCTCAGCTGGCCGGCAGAGGGCACACCGGCCCTCCACGCGGCCCTGCTGGACTTCCGCAGGAAGGTGAACA  
AGTGCTACCGGGGCCGCTCCTGCCCCATCATCGTGCAGTGCAGTGTGGTGGGGGAGGACCGGCACCTACATCC  
TCATCGACATGGTCTTGAACCGCATGGCAAAGGAGTGAAGGAGATTGACATCGCTGCCACCCCTGGAGCATGTCC  
GTGACCAGCGGCTTGCCCTGTCCGCTCTAAGGACAGTTTGAATTTGCCCTGACAGCCGTGGCGGAGGAAGTGA  
ATGCCATCCTCAAGGCCCTGCCCCAGTGAGACCTTGGGGCCCTTGGCGGGCAGCCAGCCTCTGTCCCTCTTTG  
CCTGTGTGAGCATCTCTGTGTACCACTCCTCACTGCCCCACCAGCCACCTCTTGGGCATGCTCAGCCCTTCCTA  
GAAGAGTCAGGAAGGGAAAGCCAGAAGGGGCACGCCTGCCAGCCTCGCATGCCAGAGCCTGGGGCATCCAGAG  
CCCAGGGCATCCCATGGGGGTGCTGCAGCCAGGAGGAGAGGAAAGGACATGGGTAGCAATTCTACCCAGAGCCTT  
CTCCTGCCTACATTCCCTGGCCTGGCTCTCCTGTAGCTCTCCTGGGGTCTGGGAGTTCCCTGAACATCTGTGTG  
TGTCCCCCTATGCTCCAGTATGGAAGAATGGGGTGGAGGGTGCACACCCGGCTCCCCCTGCTTCTCAGCCCCG  
GGCCTGCCTCTGACTCACACTTGGGCGCTCTGCCCTCCCTGGCCTCACGCCCAGCCTCCTCCCACCACCTCCCA  
CCATGCGCTGCTCAACCTCTCTCCTTCTGGCGCAAGAGAACATTTCTAGAAAAAACTACTTTTGTACCAGTGTGA

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**FIGURE 980B**

ATAAAGTTAGTGTGTTGTCTGTGCAGCTGCAAAAAAAAAAAAAAAAAA

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**FIGURE 981**

MRRPRRPGGLGGSGGLRLLLLCLLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQV  
TSPVLQRLQGVLRQLMSQGLSWHDDLTQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSA  
PAAQHRLPQPPVKGKGAGASSLSPLQAELLPPLEHLLLPPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEG  
SPGMVSVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSPAQLFQDSGLLYLAQELPAPSRARVRLPEQG  
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAAQLRLAAGVLAGYGVLELRQLTPEQLSTLLTLLQLLPKGAGRNP  
GGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTSSEVQQVPSVVSSEPPKAARPPVTPVLEKKSP  
LGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLLEILAEHVMSSGSFINISVVGPAITFRIRHNEQNL  
SLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAVLPQTAHSTSPMRSVLLTLVALAGVAGLLVALAVALCV  
RQHARQQDKERLAALGPEGAGDTTTFEYQDLCRQHMAKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSHSST  
PSWCEEPAQANMDISTGHMILAYMEDHLRNRDLAKEWQALCAYQAEPNTCATAQGEKNKKNRHPDFLPYDHAR  
IKLKVESSPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWP  
DEGASLYHVYEVNLVSEHIWCEDFLVRSFYLNKVNQTQETRTLTQFHFLSWPAEGTPASTRPLLDFFRRKVNKCYRG  
RSCP IIVHCSDGAGRTGTYYILIDMVLNRMAGVKKEIDIAATLEHVDRQRPGLVRSKDQFEFALTAVAEVNAILK  
ALPQ

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**FIGURE 982**

AGTTTCTACTGAGACCTGTCACCCCGACTCAACGTGAGACGCACCGCCCGGACTCACCATGCGTGAATGCATCTC  
AGTCCACGTGGGGCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGGGAGCTCTATTGCTTGGAACATGGGATTCA  
GCCTGATGGGCAGATGCCCAGTGACAAGACCATTGGTGGAGGGGACGACTCCTTCACCACCTTCTTCTGTGAAAC  
TGGTGTGGAAAACACGTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAATGG  
CCCATAACGACAGCTCTTCCACCCAGAGCAGCTCATCACTGGGAAAGAGGATGCTGCCAACAACTATGCCCCGTGG  
TCACTATAACCATTTGGCAAGGAGATCATTGACCCAGTGTGGATCGGATCCGCAAGCTGTCTGACCAGTGCACAGG  
ACTTCAGGGCCTTCTGGTGTTCACAGCTTTGGTGGGGGCACTGGCTCTGGCTTCACCTCACTCCTGATGGAGCG  
GCTCTCTGTTGACTATGGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAGGTGTCTACAGCCGT  
GGTCGAGCCCTACAACCTCTATCCTGACCACCCACACCACCTGGAGCACTCAGACTGTGCCTTCATGGTGGACAA  
CGAAGCAATCTATGACATCTGCCGCCGCAACCTAGACATCGAGCGCCCAACCTACACCAACCTCAATCGCCTCAT  
TAGCCAAATTGTCTCCTCCATCACAGCTTCTCTGCGCTTTGACGGGGCCCTCAATGTGGACCTGACAGAGTTCCA  
GACCAACCTGGTGCCCTACCCTCGCATCCACTTCCCCCTGGCCACCTATGCACCAGTCATCTCTGCAGAAAAGGC  
ATACCACGAGCAGCTGTGGTGGCAGAGATACCAATGCCTGCTTTGAGCCTGCCAACCAGATGGTAAAGTGTGA  
TCCCCGGCACGGCAAGTACATGGCCTGCTGCCTGCTGTACCGTGGAGATGTGGTGCCCAAGGATGTCAACGCTGC  
CATTGCCGCCATCAAGACCAAGCGCAGCATTTCAGTTTGTGGACTGGTGCCCCACAGGCTTCAAGGTTGGTATCAA  
CTACCAGCCTCCCACTGTGGTGCCTGGGGGTGACCTGGCCAAGGTGCAGCGTGCCGTGTGCATGCTGAGCAACAC  
GACCGCCATCGCCGAGGCCTGGGCCCCGCTGGACCACAAGTTTCGACCTGATGTATGCCAAGAGGGCGTTTGTGCA  
CTGGTATGTGGGTGAGGGCATGGAGGAGGGTGAGTTCTCCGAGGCCCGTGAGGATATGGCTGCCCTGGAGAAGGA  
TTATGAGGAGGTGGGCATCGACTCCTATGAGGACGAGGATGAGGGAGAAGAATAAAGCAGCTGCCTGGAGCCTAT  
TCACTATGTTTATTGCAAAATCCTTTGAAATAAACAGTTTCCTTGACGCTTAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAA

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**FIGURE 983**

MRECISVHVGQAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSF T T F F C E T G A G K H V P R A V F V D L E P T V I  
DEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIKRLSDQCTGLQGFLVFHSFGGGTGSGFT  
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYT  
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISA EKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMACCLLYRGDVVPKDVNA A I A A I K T K R S I Q F V D W C P T G F K V G I N Y Q P P T V V P G G D L A K V Q R A V  
CMLSNTTAIAEAWARLDHKFDLMYAKRA F V H W Y V G E G M E E G E F S E A R E D M A A L E K D Y E E V G I D S Y E D E D E G E E



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**FIGURE 984**

GGGCCTGCAGTTGGCAGGAGGGTCCCGGGCCAGAGCCAGCGGGGCCGTGCTGAGACGGCGTACGTGCCCTGCGT  
GAGTGCCTGGCGGGCGCGCTGCGCTAGGGGAGTGGGCGGTGAGGCCTGGTCCACGTGCGTCCCTTCCCGGGACC  
CCCGCAGCTTGGCGCCAGCGGCTACGTGAGCCAAGGCACCCGGATGTCCGCGCCCTCTCCGAGTGACCAGTCC  
CGGCCTCCGGTCCCGCAGTGCCCGCAGCCTCGGCCGGCGTCCACGCATTGCCATGGTGACTGTGGGCAACTACTG  
CGAGGCCGAAGGGCCCCGTGGGTCCGGCCTGGATGCAGGATGGCCTGAGTCCCTGCTTCTTCTTCACGCTCGTGCC  
CTCGACGCGGATGGCTCTGGGGACTCTGGCCTTGGTGCTGGCTCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGG  
TGCTGATTGCTGTCTTGGGGGGCGGGCCCTCGCATCTCTCCCTACGTGCTGCAGCTGCTTCTGGCCACACTTCA  
GGCGGCGCTGCCCCCTGGCCGGCCTGGCTGGCCGGGTGGGCACTGCCCGGGGGGGCCCCACTGCCAAGCTATCTACT  
TCTGGCCTCCGTGCTGGAGAGTCTGGCCGGCGCCTGTGGCCTGTGGCTGCTTGTGCTGGAGCGGAGCCAGGCACG  
GCAGCGTCTGGCAATGGGCATCTGGATCAAGTTCAGGCACAGCCCTGGTCTCCTGCTCCTCTGGACTGTGGCGTT  
TGCAGCTGAGAACTTGGCCCTGGTGTCTTGGAAACAGCCACAGTGGTGGTGGGCAAGGGCAGACTTGGGCCAGCA  
GGTTCAGTTTAGCCTGTGGGTGCTGCGGTATGTGGTCTCTGGAGGGCTGTTTGTCTGGGTCTCTGGGGCCCTGG  
ACTTCGTCCCCAGTCTATACATTGCAGGTTTCATGAAGAGGACCAAGATGTGGAAGGAGCCAGGTTCCGGTCAGC  
AGCCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGGGAG  
TCCAGCTCTGCAGCTGGTGGTGTCTATCTGCCTGGGGCTCATGGGTTTGGAAACGGGCACTCAATGTGTTGGTGCC  
TATATTCTATAGGAACATTGTGAACCTTGTGACTGAGAAGGCACCTTGGAACTCTCTGGCCTGGACTGTTACCAG  
TTACGTCTTCTCAAGTTCCTCCAGGGGGGTGGCACTGGCAGTACAGGCTTCGTGAGCAACCTGCGCACCTTCTCT  
GTGGATCCGGGTGCAGCAGTTCACGTCTCGCGGGGTGGAGCTGCTCATCTTCTCCACCTGCACGAGCTCTCACT  
GCGCTGGCACCTGGGGCGCCGCACAGGGGAGGTGCTGCGGATCGCGGATCGGGGCACATCCAGTGTACAGGGCT  
GCTCAGCTACCTGGTGTTCATGTTCATCCCCACGCTGGCCGACATCATCATTGGCATCATCTACTTCAGCATGTT  
CTTCAACGCTGGTTTGGCCTCATTGTGTTTCTGTGCATGAGTCTTTACCTCACCTGACCATTGTGGTCACTGA  
GTGGAGAACCAAGTTTCGTGCTGCTATGAACACACAGGAGAACGCTACCCGGGCACGAGCAGTGGACTCTCTGCT  
AAACTTCGAGACGGTGAAGTATTACAACGCCGAGAGTTACGAAGTGGAAACGCTATCGAGAGGCCATCATCAAATA  
TCAGGGTTTGGAGTGGAAGTCGAGCGCTTCACTGGTTTTACTAAATCAGACCCAGAACCTGGTGATTGGGCTCGG  
GCTCCTCGCCGGCTCCCTGCTTTGCGCATACTTTGTCACTGAGCAGAAGCTACAGGTGGGGACTATGTGCTCTT  
TGGCACCTACATTATCCAGCTGTACATGCCCCCTCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTT  
CATTGACATGGAGAACATGTTTGACTTGTGAAAGAGGAGACAGAAGTGAAGGACCTTCTGGAGCAGGGCCCCCT  
TCGCTTTTCAAGAGGGCCGTATTGAGTTTGGAAACGTGCACTTCAGCTATGCCGATGGGCGGGAGACTCTGCAGGA  
CGTGTCTTTCACTGTGATGCCTGGACAGACACTTGGCCTGGTGGGCCCATCTGGGGCAGGGAAGAGCACAAATTTT  
GCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACATTTACAGGTGAC  
CCAGGCCTCTCTCCGGTCTCACATTGGAGTTGTGCCCCAAGACACTGTCCTCTTTAATGACACCATCGCCGACAA  
TATCCGTTACGGCCGTGTACAGCTGGGAATGATGAGGTGGAGGCTGCTGCTCAGGCTGCAGGCATCCATGATGC  
CATTATGGCTTTCCCTGAAGGGTACAGGACACAGGTGGGCGAGCGGGGACTGAAGCTGAGCGGCGGGGAGAAGCA  
GCGCGTCGCCATTGCCCGCACCATCCTCAAGGCTCCGGGCATCATTCTGCTGGATGAGGCAACGTACGCGCTGGA  
TACATCTAATGAGAGGGCCATCCAGGCTTCTCTGGCCAAAGTCTGTGCCAACCACACCACATCGTAGTGGCACA  
CAGGCTCTCAACTGTGGTCAATGCTGACCAGATCCTCGTCATCAAGGATGGCTGCATCGTGGAGAGGGGACGACA  
CGAGGCTCTGTTGTCCCGAGGTGGGGTGTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAAACCTCTGA  
AGACACTAAGCCTCAGACCATGGAACGGTGACAAAAGTTTGGCCACTTCCCTCTCAAAGACTAACCAGAAAGGA  
ATAAGATGTGCTCCTTTCCCTGGCTTATTTTCATCCTGGTCTTGGGGTATGGTGCTAGCTATGGTAAGGGAAAGG  
GACCTTTCCGAAAAACATCTTTTGGGGAAATAAAAAATGTGGACTGTG

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**FIGURE 985**

GTGCACTTCAGCTATGCCGATGGGTGAGGCCTTCCTTTTGCTTCCTTTGCTTTTCCGTTCAATTTGCACACTGCCT  
TCCTGCTTCTCAGTGCTCTGAATCCCTGCTTTTGGAAAAGAGCCTGGGCAGGGGAGGGGCAGGGCCTACTAGCAG  
CTCTGGTGATGGAAGGTGCCTGCTGAGCAACCCACCTTTCCTTGAGGCGGGAGACTCTGCAGGACGTGTCTTT  
CACTGTGATGCCTGGACAGACACTTGCCCTGGTGAGAGGAGACCCAGCCACTTGGCCCAGATGCCTCAAGCTTCC  
CTCATTCAGTGCCCATGGTAGCTTGTGACCCAGGCTGTGGAGTCAGAGAGCCCAGTCACGATAGGCAACCGGATT  
GAATGGTGACGCTCCATGGACACTGGTGACCTCTTGGAGAGGGAACCTCAAAAGCCAGTGGGCCTCGGCCGGCT  
GCGGTGGCACATGCCTGTAATCCCAGCACTTTGGGAGGCTTAGGTGGCCAGATCACCTAAGGTGGGCCCATCTGG  
GGCAGGGAAGAGCACAATTTGCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGG  
G

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**FIGURE 986**

GCTGCCCCGGTATCCCCGTGTGGGGCAGGAAGTGGGCTTCCAGATTCCCAGTATCCCCGGTAGGGTCTGCTTCTG  
CTCGCTCGGGAAGGGCGGTGGCCGTCCCATTACTCAACCAACCCTCAACGCACTGGTCCTCCCAGTTCCCTCCCC  
TCAGTGGGTAAACAAACACACACCAGCGCTTGACTCGACAGACTCGAAAACAACATCTACTCAGAAAAGTTGTTT  
CTTTCCTATCTCCTTAAACTTTCCCACTTCCACATATCGGAGCTTCTTCCCACCTCGGCCTACTCAAGCATGAGA  
TCGGAGGCGGGAGGGCGGCGACTGGCGGGCGCATGGACCTGACCGGGCTCCTGCTGGACGAAGAAGGCACCTTCT  
CCCTCGCCGGCTTCCAGGACTTCACGTTCTTCCCAGGACACCAGAAGCTGAGTGGCCGGATCCGAAGGAGGCTCT  
ACTATGGCTGGGACTGGGAAGCCGACTGTAGCCTGGAGGAGCTCTCCAGCCCCGGTGGCAGACATTGCTGTGCAAC  
TGCTCCAGAAGGCAGCCCCCAGCCCTATTGCGCGACTCCAGAAGAAATATGTAGCTCATGTGTCCCGGGAGGCAT  
GCATCTCCCCATGTGCTATGATGCTGGCTCTGGTGTACATTGAACGGCTCCGGCACCGAAACCCAGACTACTTGC  
AGCATGTGTATCCTCTGACTTGTTCCTGATCTCCATGATGGTGGCCAGTAAGTACCTCTATGATGAAGGGGAGG  
AGGAGGAGGTCTTCAACGACGAATGGGGAGCTGCTGGGGGTGTGGCCGTGCCACTCTCAATGCCTTGGAGAGGG  
GCTTCCTGAGTGCCATGGATTGGCATCTCTACACTGACCCTCGGGAGATCTTTGAGGTGCTGAGCTGGTTGGAGA  
GCTGTGTGGCTGAGCAGCAGGGACGGTGGCGAGGCTGGTACACCTACACAGACCTGTGTGTGCTGCTGGAGCAGC  
CGACCTGGCAGTTGGCCCTGGGCTCCCTCTGCCAGCGGCTGGTAAAGCTGTCTTGCCTGTTAGCTGTGGCATATG  
TGAGCAGTGTGGCCCTGGCTGTGGCATCGGTGGCCGTAATACATCAGTCTTTGGGGCTGTCTGCATCCCTACAC  
CTGGGCCCGCCTGACCTTGGACTGACCTCCCCTTGCCTCCTGGAGCCCTGCATACCTTCTGTGCCACAATGCCTGC  
CGTCTCTCGCTAATGTCTCCAGCTGCCCTGGAAGGCAGCATGGGGCTGCGGTCACTCTGGGGCAGTCTTCTGGCCT  
CACTGACTCCTCCACCATTGCCTCCCCCAGACCCCCCTGCCCTCCCACTCTTCTTCATAACTGCCACCTTTGCC  
AGAAGCTCCAGAGAGACTCCCCAACCTGCCATGCCTGCCTCCACCCCAACCGTACAGTCCCCACTGCGCTGTCCA  
GCCCCCTGGTACCATACTATGGCCTGGCTCCCCCTGGCCTTGGAGCCCGGTGCTCCTTTCACTTCCTCAGCCTC  
AGCAATGTTCCCTTTTCACTGTATGGAGCTGGCTCGCCTCAAGTCTTTCGTTTTCCAGGCTAGGTAGGGCTGT  
GAGGAATGCATTAAGAGGGTTTGGGAGTTTCTGAGAACCTGGAGGAGCAAAGCTTGATTGAGATCCTGTCTGCCT  
CGCTGGGTCTTGGCAGGTCCCCTGTCTCCTGGGTGGGAGCTTATGGGGTGGTGGGGCAGAAGGACTGAAGGTA  
ATTCACCTCTAGATCGCAGTGGCTGGCTGCTTGGCCAGGACAGTGATGCCGCCAGGGAGAGCTTCCGCTTGGTGA  
CCAGGGACATGTCCAGATGGACATAGAAGCCCCCTCTCTGCCTCCCTGGGATTTTTTTAGACTTTTACTTTTGATT  
TCCCTAGGATGGAAGAGTATAGGTGGGAGATAAGGGAAGTGGGGTGAGAGGAGAAAGGAAATGTTGGCATGGGCC  
TGTGTGATGTCCCTGAGGCAGAAGAGC

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**FIGURE 987**

MDLTGLLLDEEGTFSLAGFQDFTFLPGHQKLSARIRRRLLYYGWDWEADCSLEELSSPVADIABELLQKAAPSPIR  
RLQKKYVAHVSREACISPCAMMLALVYIERLRHRNPDYLQHVSSDLFLISMMVASKYLYDEGESEEEVFNDEWGA  
AGGVAVPTLNALERGFLSAMDWHLYTDPREIFEVLSWLESCVAEQQGRWRGWYTYTDL CVLLEQPTWQLALGSLC  
QRLVKLSCLLAVAYVSSVALAVASVAVIHQSLGLSCIPTPGPPDLGLTSRCLLEPCIPSVPCLP SLANVSSCLE  
GSMGLRSLWGSLLASLT PFPPLPPPDPFPAPPTLLHNCHLCQKLQORDSPTCHACLHPNRTVPTALSSP WYHTYGLAP  
PWPWSPVLLSLPQQQCSLFSVMELARLKSEVFPG

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**FIGURE 988**

GAAGATATGGCGGCGTCTGCGTCTGCAGCTGCAGGGGAGGAGGACTGGGTCCCTCCCTCTGAAGTTGAAGTATTG  
GAGTCCATCTATCTAGATGAACTACAGGTGATTAAAGGAAATGGCAGAACTTCACCATGGGAGATCTACATCACT  
TTGCATCCTGCCACTGCAGAGGACCAGGATTCACAGTATGTCTGCTTCACTCTGGTGCTTCAGGTCCCAGCAGAG  
TATCCCCATGAGGTGCCACAGATCTCTATCCGAAATCCCCGAGGACTTTCAGATGAACAGATCCACACGATCTTA  
CAGGTGCTGGGCCACGTGGCCAAGGCTGGGCTGGGCACTGCCATGCTGTATGAACTCATTGAGAAAGGGAAGGAA  
ATTCTCACAGATAACAACATCCCTCATGGCCAGTGTGTCTATCTGCCTCTATGGTTTCCAGGAGAAGGAGGCCTTT  
ACCAAAACACCCTGTTACCACTACTTCCACTGCCACTGCCTTGCTCGGTACATCCAGCACATGGAGCAAGAGCTG  
AAGGCACAAGGACAGGAGCAGGAACAGGAACGGCAGCATGCTACAACCAACAGAAGGCAGTCGGTGTGCAGTGT  
CCAGTGTGCAGAGAGCCCCCTCGTGTATGATCTTGCCCTCACTGAAAGCAGCCCCCTGAACCCCAACAGCCCATGGAG  
CTGTACCAGCCCAGTGCAGAGAGCTTGCGCCAGCAAGAAGAAGCAAGCGGCTCTACCAGAGGCAGCAGGAGCGG  
GGGGGAATCATTGACCTTGAGGCTGAGCGAAACCGATACTTCATCAGCCTTCAGCAGCCTCCTGCCCCTGCGGAA  
CCTGAGTCAGCTGTAGATGTCTCCAAAGGATCCCAACCACCCAGCACCTTGTCAGCAGAACTATCCACCTCACCA  
GCCGTCCAATCCACTTTGCCACCTCCTCTGCCTGTGGCGACCCAGCACATATGTGAGAAGATTCCAGGGACCAGG  
TCAAATCAGCAAAGGTTGGGCGAAACCCAGAAAGCTATGCTAGATCCCCCAAGCCAGTCGAGGTCCCTGGCGA  
CAGCCCCGAACGGAGGCACCCAAAGGGAGGGGAGTGCCACGCCCCCTAAAGGTACCCGTGACACCCAGGAAGTCCA  
CCTCCTGAGGGGCCCCCTCAAGGAGCCCATGGACCTAAAGCCAGAACCCCATAGCCAAGGAGTTGAAGGTCTCCA  
CAAGAGAAGGGGCTGGCAGCTGGCAGGGGCCCCCACCCTGCAGGACTCGGGACTGTGTTGCTGGGAGCGCTCT  
AAAGGCCGGACACCCGGTTCTTCCTACCCTCGCCTGCCTCGGGGCCAGTAGCATACCGGCCTGGTACTCGGAGGG  
AGTCCCTGGGCCTGGAATCTAAGGATGGTTCTTAGCAGGACTTGGTGGGGGAACAGGGAATTGGGGATGGGAGG  
GAGGCAATAAAGATATTTGGCCTTC

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**FIGURE 989**

MAASASAAAGEEDWVLPSEVEVLESYLDDELQVIKNGRTSPWEIYITLHPATAEDQDSQYVCFTLVLQVPAEYP  
HEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLGTAMLYELIEKGKEILTDNNIPHGQCVCICLYGFQEKEAFTK  
TPCYHYFHCHCLARYIQHMEQELKAQGQEQEQERQHATTKQKAVGVQCPVCREPLVYDLASLKAPEPQQPMELY  
QPSAESLRQQEERKRLYQRQQERGGIIDLEAERNRYFISLQQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAV  
QSTLPPPLPVATQHICEKIPGTRSNQORLGETQKAMLDPPKPSRGPWRQPERRHHPKGGECHAPKGTRDTQELPPP  
EGPLKEPMDLKPEPHSQGVEGPPQEKGPGSWQGPPPRRTRDCVRWERSKGRTPGSSYPRLPRGQ

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**FIGURE 990**

GGCACGAGGGCCAGCTGCTGTAGAAAGAGGGGAGGAAACAAGCCAGTGCAAGGGGAGCAAAAAGAGAAAAGGAGCCA  
GGCTGGGCTTCCTGATCCACAGCATCGCAGAGCTCGGGAGGCACAGCTCACAGACACAGGAAACACAGGACTGC  
TATTCTGCTCTCCTGCCCACGGTGATCTGGTGCCAGCTGGTGGAACAGTGGGTGATGGCGTCCCTGCTGCAAGAC  
CAGCTGACCACTGATCAGGACTTGCTGCTGATGCAGGAAGGCATGCCGATGCGCAAGGTGAGGTCCAAAAGCTGG  
AAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGTCTGGCATGCACGGCAGGCCAGGGGCAGTGCC  
AAGCCCAGCTTCTCAATCTCTGATGTGGAGACAATACGTAATGGCCATGATTCCGAGTTGCTGCGTAGCCTGGCA  
GAGGAGCTCCCCCTGGAGCAGGGCTTCACCATTGTCTTCCATGGCCGCCGCTCCAACCTGGACCTGATGGCCAAC  
AGTGTTGAGGAGGCCAGATATGGATGCGAGGGCTCCAGCTGTTGGTGGATCTTGTCACCAGCATGGACCATCAG  
GAGCGCTGGACCAATGGCTGAGCGATTGGTTTCAACGTGGAGACAAAAATCAGGATGGTAAGATGAGTTTCCAA  
GAAGTTCAGCGGTTATTGCACCTAATGAATGTGGAAATGGACCAAGAATATGCCTTCAGTCTTTTTCAGGCAGCA  
GACACGTCCCAGTCTGGAACCCCTGGAAGGAGAAGAATTCGTACAGTTCTATAAGGCATTGACTAAACGTGCTGAG  
GTGCAGGAACGTGTTTGAAAGTTTTTTCAGCTGATGGGCAGAAGCTGACTCTGCTGGAATTTTTGGATTTCTCCAA  
GAGGAGCAGAAGGAGAGAGACTGCACCTCTGAGCTTGCTCTGGAACCTATTGACCGCTATGAACCTTCAGACAGT  
GGCAAACCTGCGGCATGTGCTGAGTATGGATGGCTTCCCTCAGCTACCTCTGCTCTAAGGATGGAGACATCTTCAAC  
CCAGCCTGCCTCCCCATCTATCAGGATATGACTCAACCCCTGAACCACTACTTCATCTGCTCTTCTCATAACACC  
TACCTAGTGGGGGACCAGCTTTGCGGCCAGAGCAGCGTCGAGGGATATATACGGGCCCTGAAGCGGGGGTGCCGC  
TGCGTGGAGGTGGATGTATGGGATGGACCTAGCGGGGAACCTGTCGTTTACCACGGACACACCCTGACCTCCCGC  
ATCCTGTTCAAAGATGTCTGGCCACAGTAGCACAGTATGCCTTCCAGACATCAGACTACCCAGTCATCTTGTC  
CTGGAGACCCACTGCAGCTGGGAGCAGCAGCAGACCATGGCCCGTCATCTGACTGAGATCCTGGGGGAGCAGCTG  
CTGAGCACCACTTGATGGGGTGCTGCCCACTCAGCTGCCCTCGCCTGAGGAGCTTCGGAGGAAGATCCTGGTG  
AAGGGGAAGAAGTTAACACTTGAGGAAGACCTGGAATATGAGGAAGAGGAAGCAGAACCTGAGTTGGAAGAGTCA  
GAATTGGCGCTGGAGTCCCAGTTTGAGACTGAGCCTGAGCCCCAGGAGCAGAACCTTCAGAATAAGGACAAAAAG  
AAGAAATCCAAGCCCATCTTGTTGCCAGCCCTCTCTTCCCTGGTTATCTACTTGAAGTCTGTCTCATTCCGCAGC  
TTCACACATTCAAAGGAGCACTACCACTTCTACGAGATATCATCTTTCTCTGAAACCAAGGCCAAGCGCCTCATC  
AAGGAGGCTGGCAATGAGTTTGTGCAGCACAATACTTGCGCAGTTAAGCCGTGTGTATCCCAGCGCCTGAGGACA  
GACTCTTCCAATAACAACCCCCAGGAACCTCTGGAATGCAGGCTGCCAGATGGTGGCCATGAATATGCAGACTGCA  
GGGCTTGAAATGGACATCTGTGATGGGCATTTCCGCCAGAATGGCGGCTGTGGCTATGTGCTGAAGCCAGACTTC  
CTGCGTGATATCCAGAGTTCTTTCCACCCTGAGAAGCCCATCAGCCCTTTCAAAGCCCAGACTCTCTTAATCCAG  
GTGATCAGCGGTCAGCAACTCCCCAAAGTGGAACAAGACCAAGAGGGGTCCATTGTGGATCCACTGGTGAAAGTG  
CAGATCTTTGGCGTTCGTCTAGACACAGCAGCGCAGGAGACCAACTATGTGGAGAACAATGGTTTTAATCCATAC  
TGGGGGCAGACACTATGTTTCCGGGTGCTGGTGCCTGAACTTGCCATGCTGCGTTTTGTGGTAATGGATTATGAC  
TGGAAATCCCGAAATGACTTTATTGGTCAGTACACCCTGCCTTGACCTGCATGCAACAAGGTTACCGCCACATT  
CACCTGCTGTCCAAAGATGGCATCAGCCTCCGCCCAGCTTCCATCTTTGTGTATATCTGCATCCAGGAAGGCCTG  
GAGGGGGATGAGTCTGAGGGTGGGCATTTACGGGAAGGGTTGGTATGCTGGCTTTAGACGGGGAGAAACATCTG  
GAAGGATGCTCGAGAGAACAAATGGAGGTGGTGAAATCAAGCTTTGGATTGTGCATTCCCTAGGCACAAAATTAC  
CTCATTCTTCCATAACAAGCAATCTGGGACCTGATTTTCCACCTTTTTCTCTTTCTTCCCTTCCCTTTGTTTTCA  
TAAGCCTTTGGTATCTTTCCCTGCCCTTTTCCCTTTGTGTACTCTATACTGGAGTCCCTTCTTCCCTTGTGTAG  
GCTCAATCCCATACCGACATCTACAATAATCTTTCCCATCAACTCTGTGTGAAGGCAGGTTGCAACTAGAAATT  
CAGAGGGGCTTGGAATAGAGAAACCTAAAGAAGCATCATCCCTCCATCCCCAACTTCCTCAAAGCCCCAAAGCCA  
AGGGAAGGATAAATCAAGGCTCAAGGCTTCCCCAGCAAAGATTAGGGAAAGAGACTTGACCCAGGACTGTACTA  
CGACTCTTAAGAGAACTGCACAGCACTCAAAGTCCCCCACTGGACTGCTTCCCTCCTTAGCCCCACTGGTATAA  
ATACATCTCTCTCAATTTGGCAAAAAAAAAAAAAAAAAA

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**FIGURE 991**

MASLLQDQLTTDQDLLLMQEGMPMRKVRSKSWKKLRYFRLQNDGMTVWHARQARGSAKPSFSISDVETIRNGHDS  
ELLRLAEELPLEQGFTIVFHGRRSNLDLMANSVEEAQIWMRGLQLLVDLVTSMDHQERLDQWLSDFQRGDKNQ  
DGKMSFQEVQRLHLHLMNVEMDQEYAFSLFQAADTSQSGTLEGEFVQFYKALTKRAEVQELFESFSADGQKLTL  
EFLDFLQEEQKERDCTSELALDELIDRYEPSDSGKLRHVLSMDGFLSYLCSKDGDI FNPACLPYQDMTQPLNHYF  
ICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCEVDVWDGPGSEPVVYHGHTLTSRILFKD VVATVAQYAFQTS  
DYPVILSLETHCSWEQQQT MARHLTEILGEQLLSTTLDGVLPTQLPSPEELRRKILVKGKLTLEEDLEYEEEEA  
EPELEESALAESQFETEPEPQEQLNQNKKKKSKPILCPALSSLVIYLKSVSFRSFTHSKEHYHFYEISSFSE  
TKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQELWNAGCMVAMNMQTAGLEMDICDGHFRQNGGCG  
YVLKPDFLRDIQSSFHPEKPI SPFKAQTLLIQVISGQQLPKVDKTKESIVDPLVKVQIFGVRLDTARQETNYVE  
NNGFNPHYWGQTL CFRVLVPELAMLR FVMDYDWKSRNDFIGQYTLPWTCMQQGYRHIHLLSKDGISLRPASIFVY  
ICIQEGLEGDES



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**FIGURE 992**

TTCTCCCCCAGGCTCACTCACCATGACCAAGCTGAGCGCCCAAGTCAAAGGCTCTCTCAACATCACCACCCCGGG  
GCTGCAGATATGGAGGATCGAGGCCATGCAGATGGTGCCTGTTTCCTTCCAGCACCTTTGGAAGCTTCTTCGATGG  
TGACTGCTACATCATCTGGCTATCCACAAGACAGCCAGCAGCCTGTCTATGACATCCACTACTGGATTGGCCA  
GGACTCATCCCTGGATGAGCAGGGGGCAGCTGCCATCTACACCACACAGATGGATGACTTCTGAAAGGGCCGGGC  
TGTGCAGCACCGGAGGTCCAGGGCAACGAGAGCGAGGCCTTCCGAGGCTACTTCAAGCAAGGCCTTGTGATCCG  
GAAAGGGGGCGTGGCTTCTGGCATGAAGCACGTGGAGACCAACTCCTATGACGTCCAGAGGCTGCTGCATGTCAA  
GGGCAAGAGGAACGTGGTAGCTGGAGAGGTAGAGATGTCTGGAAGAGTTTCAACCGAGGGGGATGTTTTCTCCT  
GGACCTTGGGAAGCTTATCATCCAGTGGAAATGGACCGGAAAGCACCCGTATGGAGAGACTCAGGGGCATGACTCT  
GGCCAAGGAGATCCGAGACCAGGAGCGGGGAGGGCGCACCTATGTAGGCGTGGTGGACGGAGAGAATGAATTGGC  
ATCCCCGAAGCTGATGGAGGTGATGAACCACGTGCTGGGCAAGCGCAGGGAGCTGAAGGCGGCCGTGCCCGACAC  
GGTGGTGGAGCCGGCACTCAAGGCTGCACTCAAACCTGTACCATGTGTCTGACTCCGAGGGGAATCTGGTGGTGAG  
GGAAGTCGCCACACGGCCACTGACACAGGACCTGCTCAGTCACGAGGACTGTTACATCCTGGACCAGGGGGGCCT  
GAAGATCTACGTGTGGAAAGGGAAGAAAGCCAATGAGCAGGAGAAGAAGGGAGCCATGAGCCATGCGCTGAACTT  
CATCAAAGCCAAGCAGTACCCACCAAGCACACAGGTGGAGGTGCAGAATGATGGGGCTGAGTCGGCCGTCTTTCA  
GCAGCTCTTCCAGAAGTGGACAGCGTCCAACCGGACCTCAGGCCTAGGCAAAACCCACACTGTGGGCTCCGTGGC  
CAAAGTGAACAGGTGAAGTTCGATGCCACATCCATGCATGTCAAGCCTCAGGTGGCTGCCCAGCAGAAGATGGT  
AGATGATGGGAGTGGGGAAGTGCAGGTGTGGCGCATTGAGAACCTAGAGCTGGTACCTGTGGATTCCAAGTGGCT  
AGGCCACTTCTATGGGGGCGACTGCTACCTGCTGCTCTACACCTACCTCATCGGCGAGAAGCAGCATTACCTGCT  
CTACGTTTGGCAGGGCAGCCAGGCCAGCCAAGATGAAATTACAGCATCAGCTTATCAAGCCGTCATCTGGACCA  
GAAGTACAATGGTGAACCAGTCCAGATCCGGGTCCCAATGGGCAAGGAGCCACCTCATCTTATGTCCATCTTCAA  
GGGACGCATGGTGGTCTACCAGGGAGGCACCTCCCGAACTAACAACCTTGGAGACCGGGCCCTCCACACGGCTGTT  
CCAGGTCCAGGGAAGTGGCGCCAACAACACCAAGGCCTTTGAGGTCCCAGCGCGGGCCAATTTCTCTCAATTCCAA  
TGATGTCTTTGTCTCAAGACCCAGTCTTGCTGCTATCTATGGTGTGGGAAGGGTTGTAGCGGGGACGAGCGGGA  
GATGGCCAAGATGGTTGCTGACACCATCTCCCGGACGGAGAAGCAAGTGGTGGTGAAGGGCAGGAGCCAGCCAA  
CTTCTGGATGGCCCTGGGTGGGAAGGCCCCCTATGCCAACACCAAGAGACTACAGGAAGAAAACCTGGTCATCAC  
CCCCGGCTCTTTGAGTGTTCACAACAAGACTGGGCGCTTCTGGCCACAGAGATCCCTGACTTCAATCAGGATGA  
CTTGGAAGAGGATGATGTGTTCTACTAGATGTCTGGGACCAGGTCTTCTTCTGGATTGGGAAACATGCCAACGA  
GGAGGAGAAGAAGGCCGAGCAACCACTGCACAGGAATACCTCAAGACCCATCCCAGCGGGCGTGACCCTGAGAC  
CCCCATCATTGTGGTGAAGCAGGGACACGAGCCCCCACCTTCACAGGCTGGTTCTGGCTTGGGATCCCTTCAA  
GTGGAGTAACACCAAATCCTATGAGGACCTGAAGGCGGAGCTTGGCAACTCTAGGGACTGGAGCCAGATCACTGC  
TGAGGTACAAGCCCCAAAGTGGACGTGTTCAATGCTAACAGCAACCTCAGTTCTGGGCCTCTGCCCATCTTCCC  
CCTGGAGCAGCTAGTGAACAAGCCTGTAGAGGAGCTCCCCGAGGGTGTGGACCCAGCAGGAAGGAGGAACACCT  
GTCCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTGCCTCGATGGAAGCAACA  
AAACCTCAAGAAAGAAAAAGGACTATTTTGAGAAGAGTAGCTGTGGTTGTAAAGCAGTACCCTACCCTGATTGTA  
GGGTCTCATTTTCTCACCAGATATTAGTCTACACCAATTGAAGTGAAATTTTGCAGATGTGCCTATGAGCACAAA  
CTTCTGTGGCAAATGCCAGTTTTGTTTAATAATGTACCTATTCCTTCAGAAAGATGATACCC

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**FIGURE 993**

TGCTCCCTTTTTCTGTCTCTGTCCATGCTGCCATGTTTCTCTGCTGCCAAATTGGGCCCTTGGCCCCCTCCGGT  
TCTGCTTCCTGGGGGCAGGGTTCCTGCCTTGGACCCCCAGTCTGGGAACGGTGGACATCAAGTGCCTTGCATAGA  
GCCCCCTCTTCCCCGCCCAGCTTTCCCAGGGGCACAGCTCTAGGCTGGGAGGGGAGAACCAGCCCCCTCCCCCTGC  
CCCACCTCCTCTCCCCAGGGTCTAACGGTTAAGGGGACCCACATACCAGTGCCAAGGGGGATGTCAAGTGGTGAT  
GTCGTTGTGCTCCCCCTCCCCAGAGCGGGTGGGCGGGGGGTGAATATGGTTGGCCTGCATCAGGTGGCCTTCCCA  
TTTAAGTGCCTTCTCTGTGACTGAGAGCCCTAGTGTGATGAGAACTAAAGAGAAAGCCAGACCCCT

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**FIGURE 994**

ATGGACTCTGGGAGGCGTTTGGGCCCAGAGAAGTGGATCCGCCGCTTGCGCCGCATGGAGTCCGAATCGGAAAGC  
GGGGCTGCTGCTGACACCCCCCACTGGAGACCCTAAGCTTCCATGGTGATGAAGAGATTATCGAGGTGGTAGAA  
CTTGATCCCGGTCCGCCGGACCCAGATGACCTGGCCCAGGAGATGGAAGATGTGGACTTTGAGGAAGAAGAGGAG  
GAAGAGGGCAACGAAGAGGGCTGGGTTCTAGAACCCCAAGGAGGTGGTCCGCAGCATGGAGGGCCCCGACGAT  
AGCGAGGTACCTTTGCATTGCACTCAGCATCTGTGTTTTGTGTGAGCCTGGACCCCAAGACCAATACCTTGGCA  
GTGACCGGGGGTGAAGATGACAAAGCCTTCGTATGGCGGCTCAGCGATGGGGAGCTGCTCTTTGAGTGTGCAGGC  
CATAAAGACTCTGTGACTTGTGCTGGTTTCAGCCATGACTCCACTCTAGTGGCCACAGGGGACATGAGTGGCCCTC  
TTGAAAGTGTGGCAGGTGGACACTAAGGAGGAGGTCTGGTCCTTTGAAGCGGGAGACCTGGAGTGGATGGAGTGG  
CATCCTCGGGCACCTGTCTGTTGGCGGGCACAGCTGACGGCAACACCTGGATGTGGAAAGTCCCGAATGGTGAC  
TGCAAGACCTTCCAGGGTCCCAACTGCCCAGCCACCTGTGGCCGAGTCCTCCCTGATGGGAAGAGAGCTGTGGTA  
GGCTATGAAGATGGGACCATCAGGATTTGGGACCTGAAGCAGGGAAGCCCTATCCATGTACTGAAAGGGACTGAG  
GGTCACCAGGGCCCCACTCACCTGTGTTGCTGCCAACCAGGATGGCAGCTTGATCCTAACTGGCTCTGTGGACTGC  
CAGGCCAAGCTGGTCAGTGCCACCACCGGCAAGGTGGTGGGTGTTTTTAGACCTGAGACTGTGGCCTCCCAGCCC  
AGCCTGGGAGAAGGGGAGGAGAGTGAAGTCCAACCTCGGTGGAGTCCTTGGGCTTCTGCAGTGTGATGCCCCTGGCA  
GCTGTGGCTACCTGGATGGGACCTTGGCCATCTATGACCTGGCTACGCAGACTCTTAGGCATCAGTGTGAGCAC  
CAGTCGGGCATCGTGCAGCTGCTGTGGGAGGCAGGCACTGCCGTGGTATATACCTGCAGCCTGGATGGCATCGTG  
CGCCTCTGGGACGCCCCGACCGGCCGCCTGCTTACTGACTACCGGGGCCACACGGCTGAGATCCTGGACTTTGCC  
CTCAGCAAAGATGCCTCCCTGGTGGTGACCACGTCAGGAGACCACAAAGCGAAAGTATTTTGTGTCCAAAGGCCT  
GACCGTTAATGGCTGCAGCCCCTGCCTGTGTGTCTGGTGTGAGGGGACGAAGGGACCCCTGCCCCCTGTCTGCCA  
GCAGAGGCAGTAGGGCACAGAGGGAAGAGGAGGGTGGGGCCCTGGATGACTTTCCAGCCTCTTCAACTGACTTGC  
TCCCCCTCTCCTTTTCTTCTTTTAGAGACCCAGCCCAGGGCCCTCCACCCCTTGCCAGACCTGGTGGGCCCTTC  
AGAGGGAGGGGTGGACCTGTTTCTCTTTCACTTTTCACTTTGCTGGTGTGAGCCATGGGGTGTGTATTTGTATGTGG  
GGAGTAGGTGTTTGAAGTTCCCGTTCTTTCCCTTCCCAAGTCTCTGGGGGTGGAAAGGAGGAAGAGATACTAGTT  
AAAGATTTTAAAAATGTAAATAAAATATACTTCCCAG

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**FIGURE 995**

MDSGRRLGPEKWIRRLRRMESESESGAAADTPPLETLSFHGDEEIIIEVVVELDPGPPDPDDLAQEMEDVDFEEEE  
EEGNEEGWVLEPQEGVVGSMEGPDDSEVTFALHSASVFCVSLDPKTNLAVTGGEDDKAFVWRLSDGELLFECAG  
HKDSVTCAGFSHDSTLVATGDMGSLKQVQDTKEEVWSFEAGDLEWMEWHPRAPVLLAGTADGNTWMMWKVPNGD  
CKTFQGPNCPATCGRVLPDGKRAVVGIEDGTIRIWDLKQGSPIHVLKGTEGHQGPLTCVAANQDGSIIITGSVDC  
QAKLVSATTGKVVGVRPETVASQPSLGEGESESNVESLGFCVMPLAAVGYLDGTLAIYDLATQTLRHQCQH  
QSGIVQLLWEAGTAVVYTCSLDGIVRLWDARTGRLLTDYRGHTAEILDFALSKDASLVVTTSGDHHKAKVFCVQRP  
DR

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**FIGURE 996**

GGCACGAGCTCTCCCTCCGTCCTTGCCCTCCCTTACCCACCCCTCACCGGCCCTTGTTTCTCCTTCCCCTGGGGGCA  
GCCGCCGCCATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACGCG  
GCCGCCGGAAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTTTCGATGGGGTCCTCTATCATATTTCAAAT  
CCTAATGGAGACAAAACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGGAAC TTCAGGCACATGGTGCT  
GATGAGTTATTAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATAT  
GACCTTGAAAATCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTTTGCC  
TCTGTCTTTGAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAGGGCAGTTATCCATTATAGG  
GATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCACAGTAGTCTTCAGCACAGTGTTTAAGGATGAC  
GACGATGTGGTCATTGGAAAGGTGTTTCATGCAGGAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACAG  
GTCCTCTTTAGCCACAGGGAACCTCCTCTGGAGCTGAAAGACACAGACGCCGCTGTGGGTGACAACATTGGGTAC  
ATTACCTTTGTGCTGTTCCCTCGTCACACCAATGCCAGTGCTCGAGACAACACCATCAACCTGATCCACACGTT  
CGGGACTACCTGCACTACCACATCAAGTGCTCTAAGGCCTATATTCACACACGTATGCGGGCGAAAACGTCTGAC  
TTCCTCAAGGTGCTGAACCGCGCACGCCCAGATGCCGAGAAAAAAGAAATGAAAACAATCACGGGGGAAGACGTTT  
TCATCCCGCTAATCTTGGAATAAGAGGAGGAAGCGGCTGGCAACTGAAGGCTGGAACACTTGCTACTGGATAAT  
CGTAGCTTTTAATGTTGCGCCTCTTCAGGTTCTTAAGGGATTCTCCGTTTTGGTTCCATTTTGTACACGTTTGGA  
AAATAATCTGCAGAAACGAGCTGTGCTTGCAAAGACTTCATAGTTCCCAAGAATTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 997**

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQAHGADEL  
LKRVGSGFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKEGENRAVIHYRDDE  
TMYVESKKDRVTVVVFSTVFKDDDDVIGKVMQEFKEGRRASHTAPQVLFSHREPPLELKDTDAVGDNIGYITF  
VLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRARPDAEKKEMKTIITGKTFSSR

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**FIGURE 998**

GCGGCGGCGAGAGGATGAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAG  
AAAACAGCACACAGAAAGATGGTGAGAAGGAAAAACGGAACGAGACAAGAATCAGAGCAGTAGCAAGAGAAAGG  
CTGTTGTCCCTGGACCGGCAGAGCATCCCCTGCAGTACAACCTACACTTTTTGGTACTCCAGGAGAACCCCCGGCC  
GTCCCACGAGCTCACAGAGCTATGAACAGAATATCAAACAGATTGGCACCTTTGCCTCTGTGGAGCAGTTCTGGA  
GGTTTTATAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTCCATCTCTTCAAAGAAGGAATTA  
AACCCATGTGGGAGGATGATGCAAATAAAAAATGGTGGCAAGTGGATTATTCGGCTGCGGAAGGGCTTGGCCTCCC  
GTTGCTGGGAGAATCTCATTTTTGGCCATGCTGGGGGAACAGTTCATGGTTGGGGAGGAGATCTGTGGGGCTGTGG  
TGTCTGTCCGCTTTCAGGAAGACATTATTTCAATATGGAATAAGACTGCCAGTGACCAAGCAACCACAGCCCGAA  
TCCGGGACACACTTCGGCGAGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAAACCTCACACCGACAGCA  
TCAAATGCCAGGCAGGCTGGGCCCCCAAAGGCTCCTTTTTCAAACCTCTGGAAGCCGCGGTTGAATGTGCCAT  
GACCCTCTCCCTCTCTGGATGGCACCATCATTTGAAGCTGGCGTCATCGGAGTCTGTTGTTCTGTTGGCGTGCTAC  
CTGGAAGATCCTTCTGTGGTGGACAAGAGGAATTGGAAGAGCATTTTATGTTTTAAGAACAGGCTGACACGCAGC  
AGCTACAACAACAGCTGAGATCACTTAATAAATGGTGCTAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 999**

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTERDKNQSSSKRKAVVPGPAEHPLQYNYTFWYSRRTPGRPTSS  
QSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHSDFHLEKEGIKPMWEDDANKNGGKWIIRLRKGLASRCWEN  
LILAMLGEQFMVGEEICGAVSVRFQEDIISIWNKTASDQATTARIRDTLRRVLNLPNTIMEYKTHDTSIKMPG  
RLGPQRLLFQNLWKPRLNVP



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**FIGURE 1000**

GGCACGAGGAGAGCCTCGAGCCTGCGAGGAGCGCGCCGCCCGCCAGCTCCCTGCGTCCCGTCCCGCGTCCCGCGG  
TTCCCGCGTCCTGCGATCCGCCGCC**ATG**GCCAGTGAGGAGCTGGCGTGCAAGCTGGAGCGCCGGCTGCGGCGCGA  
GGAGGCCGAGGAGAGTGGCCCCAGCTGGCTCCCTCGGCGCCCCAGCCCCGGAGCCCAAGCCCGAGCCCGAGCC  
TCCCGCCCGTGCGCCACGGCCAGCGCCGACGCGGAGCTGAGCGCCCAGCTGAGCCGGCGGGCTGGACATCAACGA  
GGGCGCTGCGCGGCCCGGCGCTGCAGGGTCTTCAACCCCTACACGGAGTTCCCGGAGTTCAGCCGCCGCCTCAT  
CAAGGACCTGGAGAGCATGTTCAAACCTGTATGACGCTGGGCGGGATGGCTTCATCGACCTGATGGAGCTGAAGCT  
GATGATGGAGAAGCTGGGGGGCCCCCAGACCCACCTGGGCCTGAAGAGCATGATCAAGGAGGTGGATGAGGACTT  
CGATGGCAAGCTCAGCTTCCGGGAGTTCCTGCTCATTTTCCACAAGGCCGCGGCAGGGGAGCTGCAGGAGGACAG  
TGGGCTGATGGCGCTGGCAAAGCTTTCTGAGATCGATGTGGCCCTGGAGGGTGTCAAAGGTGCCAAGAACTTCTT  
TGAAGCCAAGGTCCAAGCCTTGTCATCGGCCAGTAAGTTTGAAGCAGAGTTGAAAGCTGAGCAAGATGAGCGGAA  
GCGGGAGGAGGAGGAGAGGCGGCTCCGCCAGGCAGCCTTCCAGAACTCAAGGCCAACTTCAATACAT**AGT**CTCTG  
CTGACCTTGCCCTCTGCCACAGCTGTGCCTCACAGATGCCCCGAGAAGAGATGACTAGGCATCTTCATCACTGC  
TGTGCGTCCCTCCCTGAGCCAGCATCTCCATCCACCACCCCGTGCCAGCTCCCGTGCCAGCCTTCATTCCCTCCC  
AGTGTCCAAGCCCCCTCCAGGAGGGTCTGGGGTGGGCCAGATGCCTGCCACCTCTGTCTCCTGCCTCTGCTCCT  
CTGCCCTTCTTATAGCCAGAACTTGTATCTTCTCAGCAACCTTCACCTTGTCTTGTCCCTTTACCATTCCCCAT  
CAAAGAGTAGTCTGCTATATCAATTTGTGTAGATATGTCTGTCTTTTGGGTCCTCAGAGAAAATGCCATTTTC  
TCGGAGAATTCTCTGCACTCCTCTCTGCTTACATTCAACTTCCCTGTTCTCATCTTTGGTAGGATTCTGCCAGT  
TGCTTTTGATCTTCTGTTCCCTGGGTAATGGTGGGTCTTAATGGAGGCTGGGTGGACCACTGCCCGTCCACTCTT  
CAACAGGAGGAACAGCATGCCACCACAGTAACACACATTAGAGAAAGGACAGAGGTCTGCTCCTTCCCTGCCACCT  
TTCTCCTGGCCCCCTTAGCATTCCCCCAGTCCCTCCCTCTTACCTTGCTCCGTCTATGTCTTCCAGCTCAGCCT  
TTTCCCCACTCTTAAATACTGTACTACTTCACTGTAAGAACGAAAGAATAGTTAGGATACCAATGAGTAAAAGGG  
TTCCTGTTCACTCTGACTCTGTGCAAATTGTATTACAGTAGACCGCTGACGTTCCCAAGTGACAGATCCAGGGCC  
TTTCAAACATCCCCAAAGTCATGGCCATACTACCATTAGCCAGTTTCTAACATCTGTTTCAGGGTATCCAGCTG  
TAGATGTTCTTATCCCCCATACTTGTGAGTTATTGGGGTTGCTCACAAATACTAGGGGTTTTTGTGATTTTTTA  
ACAAATATATCCTAATGTCATATTTATTCTCTTTTGTAACTGCTGTCTTTACAATAAAGAAATCATCTGCCTTTC  
TAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1001**

MASEELACKLERRLRREEAEESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLSRRLDINEGAARPRRC  
RVFNPYTEFPFESRRLIKDLESMFKLYDAGRDFIDLMELKLMMKLGAPQTHLGLKSMIKEVDEDFDGKLSFRE  
FLLIFHKAAAGELQEDSGLMALAKLSEIDVALEGVKGAKNFFEAKVQALSSASKFEAELKAEQDERKREEEERRL  
RQAAFQKLKANFNT

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**FIGURE 1002**

ATGGTCCCCTGCTGGAACCATGGCAACATCACCCGCTCCAAGGCGGAGGAGCTGCTTTCCAGGACAGGCAAGGAC  
GGGAGCTTCCTCGTGCGTGCCAGCGAGTCCATCTCCCGGGCATAACGCGCTCTGCGTGCTGTATCGGAATTGCGTT  
TACACTTACAGAATTCTGCCCCAATGAAGATGATAAATTCACGTGTTTCAAGAAATCTGAACCTGACTTCAGCCGATAC  
TGGCAGAGAAAGGGTGTAACGATGAGGAAGGAAGTGCACGCGCAGGATGCAGTAGTAGACAGGGAGCTGGACTC  
AAGGTGTGGGGAGACCACAGGCAAGTCCCTGGAGGCCAAAATCCTCCAGAAGTTGTCAAGAGGGAGAGCGTGGTG  
AGCAGAACGCCCTCAGGAAGACAGCTTATGAGGATGGAAGGAATTGCTTCGAGGAGCGATGTGATTGA

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**FIGURE 1003**

MVPCWNHGNI TRSKAEELLSRTGKDGSFLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQKSEPDFSRY  
WQRKGVNDEEGSARAGCSSRQGAGLKVWGDHRQVPGGKNPPEVVKRESVVSRTPLRKTAYEDGRNCFEERCD

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**FIGURE 1004**

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCGCCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT  
CTGCGCCACTTGTCCGCTTCACACTCCGCGGCCATCATGGTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC  
CCCAAGAAAATGGCTCCTCCTCCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA  
GATGATAGCAGTGGAGAAGAGGTGCTCATACTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG  
GTGGTCGTTTCCCCAACAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAGCAGCTGTCACTCCAGGCAAAAAG  
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA  
CCAGGCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGTTGCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAG  
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG  
GATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGCTGCCCCCTGCCTCAGAGGATGAGGAC  
GATGAGGATGACGAAGATGATGAGGATGACGATGACGATGAGGAAGATGACTCTGAAGAAGAAGCTATGGGAGACT  
ACACCAGCCAAGGAAAGAAAGCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA  
GAAGAGGATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGATGATGAGGAG  
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAAGCACCTGGAAAACGAAAGAAGGAAATGGCCAAACAGAAA  
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGAAGGCACAGAACCGACTACGGCTTTCAATCTCTTTGTTGGAAAC  
CTAAACTTTAACAATCTGCTCCTGAATTAAAACTGGTATCAGCGATGTTTTTGCTAAAAATGATCTTGCTGTT  
GTGGATGTCAGAATTGGTATGACTAGGAAATTTGGTTATGIGGATTTTGAATCTGCTGAAGACCTGGAGAAAGCG  
TTGGAACCTACTGGTTTGAAAGTCTTTGGCAATGAAATTAACTAGAGAAACCAAAGGAAAAGACAGTAAGAAA  
GAGCGAGATGCGAGAACACTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAAGAAGTGT  
GAAGATGCTGCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA  
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT  
ACTGGAGAGAAAGGTCAAAATCAAGACTATAGAGGTGGAAAGAATAGCACTTGGAGTGGTGAATCAAAAACCTCTG  
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAA  
GTACCCCAGAACCAAATGGCAAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTGCAAGACGCTAAAGAA  
GCTTTAAATTCCTGTAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA  
CCTAATGCCAGAAGCCAGCCATCCAAAACCTGTGTTTGTCAAAGGCCTGTCTGAGGATACCACTGAAGAGACATTA  
AAGGAGTCATTTGACGGCTCCGTTCCGGCAAGGATAGTTACTGACCGGGAAACTGGGTCTCCAAAGGGTTTGGT  
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAAGCTGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAAT  
AAAGTTACCTTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGGTCGTGGTGGAGGCAGAGCGGCTTT  
GGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCGAGGA  
GGCTTCCGAGGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTTGAATTAGCTTCTG  
TCCCTCTGCTTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTTACTGTTACCTGATCAATGACAGAGCC  
TTCTGAGGACATTCCAAGACAGTATACAGTCCTGTGCTCCTTGGAATCCGTCTAGTTAACATTTCAAGGGCA  
ATACCGTGTTGGTTTTGACTGGATATTATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCCCTTATCTGT  
AAGTTTTGAATTTATATTGTTTCATCCATGTACAAAACCATTTTTTCCTAC

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**FIGURE 1005**

MVKLAKAGKNQGDPPKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVVIPQKKGKAAATSAKKVVSPTKKVAVA  
TPAKKAAVTPGKKAATPAKKTVTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKEDSDEED  
DDSEDEDEDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDEDDDDDEEDDSEEEAMETTPAKGKAAKV  
PVKAKNVAEDEDEEEDDEDEDDEDDDEDDDE  
TEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDLEKALELTGLKVFNE  
IKLEKPKGKDSKKERDARTLLAKNLPHYVTQDELKEVFEDAAEIRLVSKDGKSKGIAYIEFKTEADAETFEKQ  
GTEIDGRSISLYYTGEKGQNDYRGKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGY  
AFIEFASFEDAKEALNSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTEETLKESEFDGVSVRARI  
VTDRETGSSKGFVFDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGGRGGGGFGGRGGGGGGGG  
FGGRGRGGFGGRGGFRGGRGGGGDHKPKQKKTKFE

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**FIGURE 1006**

TGAACTGAGCGGCCCTGAGCTGACAGATACACTGCGCAGCTGGAACGGCGAGCGAGCCGACGGGCGAGTGAGGG  
GCGCAGCCATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACCACAGCTTAAGGAATTTG  
CACTACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTT  
TATACGAAGATGAAGGTTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTTATCACCTGGGGG  
CTTTTGAGGAGTCTCTGAATTATGCTCTTGGAGCAGGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGG  
AACTATTATAGCAAAATGCATTGATCACTACACCAAAACAATGTGTGGAATGCAGATTTGCCTGAAGGAGAAA  
AAAAACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATA  
AACAGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGTCTTTGAAAAGACCATACTGGAGTCGAATGATG  
TCCCAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGTCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTAC  
TAAGAGTTCTAGTTAAAATCTACATGAACCTGGAGAAACCTGATTTTCATCAATGTTTGTGAGTGCTTAATTTTCT  
TAGATGATCCTCAGGCTGTGAGTGATATCTTAGAGAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGA  
TTTGTGTTTGATTGTATGAAAGTGCTAGCCAGCAGTTTTTGTCTATCTGTAATCCAGAATCTTCGAACTGTTGGCA  
CCCCTATTGCTTCTGTGCCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGG  
AAACAGAAGAAAAGACAAGCAGTGCAATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTT  
TGAAAATGATTAATAATTTTAAGTGGTGAAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAATA  
CAGACCTCATGATTCTAAAAAACACAAAGGATGCAGTACGGAATTCTGTATGTCATACTGCAACCGTTATAGCAA  
ACTCTTTTATGCACTGTGGGACAACCAGTGACCAGTTTCTTAGAGATAATTTGGAATGGTTAGCCAGAGCCACTA  
ACTGGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCATGAAAAAGAAGCATTACAGTTAA  
TGGCAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTC  
TTATTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAACGCCAGCAATGATATCG  
TTAGACACGGTGGCAGTCTGGGCCTTGGTTTGGCAGCCATGGGAACTGCACGTCAAGATGTTTATGATTTGCTAA  
AAACAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCT  
CTAAAAATGCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAACTCAACATGAGAAGATTCTGCGTGGTC  
TTGCAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTCTGTCTGTG  
ACAAGGACCCCAATTCTTCGAAGGTCTGGAATGTATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAAG  
CAATTCGACGCCTGCTACATGTTGCTGTAAAGTGATGTTAATGATGATGTCAGGAGGGCAGCAGTAGAATCACTTG  
GGTTCAATCTATTCAGAACCCCTGAACAGTGCCCAAGTGTTGTCTCTTTGTTGTGAGAGAGTTACAACCCCTCATG  
TGCGCTACGGAGCTGCAATGGCCTTGGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAATTTGCTAG  
AACCAATGACAAACGACCCCGTGAACACTACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGC  
AGACTGAAATCACTTGTCCAAAGGTGAATCAGTTCAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATG  
ATGTCATGGCCAAGTTTGGCGCTATTCTGGCCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCT  
TGCAGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCCTTGTAATTTACCCAGTTTTTGGTTCTGGT  
TTCTCTTTTACACTTCTGTCTATTGGCTTATACCCCTACCTGTGTCTATTGGCCTTAACAAGGACTTAAAGATGC  
CGAAAGTTCAGTATAAATCGAACTGTAAACCATCCACATTTGCATATCCTGCCCTCTGGAAGTACCAAAAGAAA  
AAGAAAAGGAAAAGGTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAGGAAA  
AAAAGGAGGAGGAGAAAATGGAAGTGGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGC  
CAAACCTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCCTAACCATGCCGGAGACCT  
GTAGATAACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATATTCTGAAGGATACCAGTGAAGACATTGAGG  
AGCTGGTGGAACCTGTGGCAGCACATGGCCCAAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCAAGACCAT  
TTGAGTATATTGATGATTAAGGGCCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGG  
AATGCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAA  
CCCTGTCTCCAAGTCTTTGGTTGAAGAGAAGATATGACTGTTGAGTGTGCTCTTTCACAGAACCTGGTTTTCA  
AATAAATATAAGATCTCCAGATGGACAAG

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**FIGURE 1007**

CTGCAAGCCGCCGAGCCGGGCAACCACTGGAAGGAGCCTGGGAGAGGCCAGGCCTCCCCGGACTGCTAGCCTGC  
TTTTCTGGGGTCCCTGGAGCCGGAGGAAGAACCAGGATGTTGCTGCCTGCAGAAGCTCAGCTCAGGAAGACTTC  
CAGGAACCTGAGGAGGAGCTGCCACTAACAGCCATATTTCCCAATGGAGACTGTGATGACCTTGGGAAGGGGGTCA  
AAAGCCTGTGATGGAGTCGTACACACTCCTGCTGAGCCCACCGGAGACTCAAGATGAAGGCTGGACCCCTTGCCT  
GTCCCTGGCTCTAACCTACAGACTGGGGCCTGGCTCCGTCTTACTGGCCCCCAGGTCTCCATGGAGACTGCAGAA  
ACCCCGCCTGCTGGAGGCCTGCCACACTCACAGTTACCAGCTAGACAGTGGGGCTTACTAAGACAAGCAGGACC  
TAAACAGTGTCTCCCTGGGAACCTACTCCCCACCCAGCATTGCTAAGTCTGATCACAGGGAGGTTATTTTGT  
CTCTCTGTCTCGGTTTCTCTGAGCCACTGAGACAGATGGCTGTCCGCTTTGAGGCTCTGCAGAGCTGTGGCAGCC  
CATGGTGTGTCTGCAGTGTCTGGGCACATGCATGGGCACCCATCGTTGAGAGTGCAGCTGGGAAGAAGTCTGAA  
CCAGAAGTCATCAGAGCTGAGGCATGGCCTTGAACATGTCACTCAGTCTCTGGGGCTTCTGTTTTACAAATGCAT  
GAGGGGGCCACCAGCCAGTGGCTTTAAACCAGGGGCAGGTTGTCCCTCCAGGCAGCATTGGAAATGTGTGTGTG  
TTGAGGGGGTCACAGTGAAGTGTGGGGGCACCCCTGGCATCTAGTGGGCATCCACAATGTGCAGAACAGTCTCTG  
ACAGCAAAGAATTGGTCCATTCAATGCCAATTGTAGTACCTTTGAGACATTCTGGCTGAGCCAATGCCTTCTCCC  
TGTCAGAGTCCCCCAGAGCAGAGAGGGTCAAGGCTTCCCTGGACCTTGGCTCCAGAGCAAGCCAAAATAAAGACT  
ACACTGTTGCCTTGGGGGCTTGTCTGGGGCCAGGGCCAAGACGGTCTGCGTGTCTGCAGGGCCAGGACAGAAATAGCC  
ACACATGCCGGTGAGAACAAGAGCCTCTTTCTTTCTCATGTTGACATCGACTTTCTGTGCCAAGTCTTTGGGT  
ATAAGGATGCTAGGGAATTCTATAGGCACCAAACAGAAGGAAAGCTAGGGGCTTGGACTACTGGGTATAGGACT  
TGCTCTAGCTCTCAGGTCTAGCCCAAGCTCAATGCAAACACAGCCCCTCCGGGCTCTCTGTTTCTGTGAGGTTT  
TGGAATCCCTTCCCTCTGTGTCCGTGAGTCTGACAGAATCGATGATGTTCCCTTAGAGCTGGGAAATCCATGTGTT  
TATTCACGGAGGGAAGTCAACATTACCTCCCTTGTCTTCTTTGCCTGCCTTGGAGAAATCCAGAGTCTTCGGAAT  
GGCAAAGGCAGTCTCCTGGATTTCCCTGGAGGGGAGGCACTAGCTGAGGGAAGTAGCTCCCTTCATTTCATGATGCA  
CAGTTTACGCAGCAGACACACAAGTGCCTTACTATTTGCTCGGTGCCCTGCAAGGTGCTGCCTAACTTTGATTT  
GTTATTTACAGCTCTCTCCAGGATAGTGCCAAATGGTGCAATGGGAAACCTGTTTTGCTGGGGGGCTCTAGATCAC  
TGGCTCCAGAACTCCCGGCTGCCAGGGTAGCCCCTACCCCCAGCCCCTTGCTCCTGGACAGCAGTGGGTCTCACC  
TTTAGCCTCTGCCCCAGTTCTGGTCTGACCCAACAGAGGGGCTCTATGATATTAAGAAGGGGGCCCTTCCCTGCTC  
TGTGCCCTCAACCTATTCTCCATAATAGGGAGTCTAATCCTATTCCCTTCCCTGCCTGATGAGGATGGTGTGAGGAT  
GAGGAGGACGGCATCTCATTGGGGCTTTTTGGCAGTGGGCCTCATTTTAATCCTGCAGGGCTGCCTGCCAGTGG  
ATCTATCCAGCTGCTTCCTGTAGCCAAGAATGAGTTCAATGAATTGTGATTCAGTATTTTATTGATTTTGT  
TAAACAGGGAGACTGGTATTTTTGAAGCTGCTATCATTTTCTATTCTTTATTAATTTCTTTGTAATCATCTTA  
TTAAAGTTTTCTTATTAGTGGG



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**FIGURE 1008**

METVMTLEGGQKPVME SYTLLLSPPETQDEGWTLLALSLALTYRLGPGSVLLAPRSPWRLQKPPPAGGLPHSQLPA  
RQWGLLRQAGPKTVSPLGTYSPPSIC

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**FIGURE 1009**

GGGACGCGAGCGGGATCCAAACTTCCGGTGCCTGCAGAGCTCGGAGCGGCGGAGGCAGAGACCGAGGCTGCACCG  
GCAGAGGCTGCGGGGCGGACGCGCGGGCCGGCGCAGCCATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCA  
TCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGCCCCCTGCGCCGGCCCTCGGCCACCGAGATCCTGCTGACGC  
CGGCTAGGGAGGAGCAGCCCCACAACATCGATCCAAGAGGGGGGGCTCAGTGGGCGGCGTGTGCTACCTGTCTCGA  
TGGGCATGGTTCGTGCTGCTCATGGGCCCTCGTGTTTCGCCTCTGTCTACATCTACAGATACTTCTTCCTTGCGCAGC  
TGGCCCCGAGATAACTTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTCCGGACTCAGATGG  
AGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAATAACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCG  
GCGGTGACCCCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGT  
GCTATGTTCATGAACTCAACACCACCATTTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAAGA  
GGGGGACCTACCTGCCGAGACGTACATCATCCAGGAGGAGATGGTGGTCACGGAGCATGTGAGTGACAAGGAGG  
CCCTGGGGTCCCTCATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGC  
GGATCAACAAGCGTGGGGCCAAAGAACTGCAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCA  
TCTGCGGGGTGGTGTGAGGCCCCCTCCCCCAGAACCCCCCTGCCGTGTTCTCTTTTCTTCTTTCCGGCTGCTCT  
CTGGCCCTCCTCCTTCCCCCTGCTTAGCTTGTACTTTGGACGCGTTTCTATAGAGGTGACATGCTCTCTCCATTCC  
TCTCCAACCTGCCACCTCCCTGTACCAGAGCTGTGATCTCTCGGTGGGGGGCCCATCTCTGCTGACCTGGGTG  
TGGCGGAGGGAGAGGCGATGCTGCAAAGTGTTTTCTGTGTCCCACTGTCTTGAAGCTGGGCCTGCCAAAGCCTGG  
GCCCACAGCTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGAGCCGGGCATGTGAGGCCCTGGGCAAGGGG  
ATGGGGCTGTGGGGGCGGGGCGGCATGGGCTTCAGAAGTATCTGCACAATTAGAAAAGTCCTCAGAAGCTTTTTC  
TTGGAGGGTACACTTTCTTCACTGTCCCTATTCCCTAGACCTGGGGCTTGAGCTGAGGATGGGACGATGTGCCAG  
GGAGGGACCCACCAGAGCACAAGAGAAGGTGGCTACCTGGGGGTGTCCCAGGGACTCTGTGAGTGCCTTCAGCCC  
ACCAGCAGGAGCTTGGAGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAACTGTTCTCTGAGTGAACCAAAGA  
AGCAAGGAGCTAGGACCCCCAGTCCTGCCCCCAGGAGCACAAGCAGGGTCCCCTCAGTCAAGGCAGTGGGATGG  
GCGGCTGAGGAACGGGGCAGGCAAGGTCACTGCTCAGTCACGTCCACGGGGGACGAGCCGTGGGTTCTGCTGAGT  
AGGTGGAGCTCATTGCTTTCTCCAAGCTTGGAAGTGTTTTGAAAGATAACACAGAGGGAAAGGGAGAGCCACCTG  
GTACTTGTCCACCTGCCTCCTCTGTTCTGAAATTCCATCCCCCTCAGCTTAGGGGAATGCACCTTTTTTCCCTTT  
CCTTCTCACTTTTGCATGTTTTTACTGATCATTCGATATGCTAACCGTTCTCAGCCCTGAGCCTTGAGAGAGGAGG  
GCTGTAACGCCTTCAGTCAGTCTCTGGGGATGAAACTCTTAAATGCTTTGTATATTTTCTCAATTAGATCTCTTT  
TCAGAAGTGTCTATAGAACAATAAAAATCTTTTACTTCTG

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**FIGURE 1010**

MVKISFQPAVAGIKGDKADKASASAPAPASATEILLTPAREEQPPQHRSKRGGSVGGVCYLSMGMVVLLMGLVFA  
SVYIYRYFFLAQLARDNFFRCGVLYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGGDPADIIHDFQR  
GLTAYHDISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVVTEHVS DKEALGSFIYHLCNGK  
DTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

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**FIGURE 1011**

GATCACCACCATCGAGGCAGTGAAGTGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGC  
TGAGCACCTCCAGCGAGAAGTTGAGGGAGAAAGGCAGGCCCGGGAAGAGAGGTATGAAGGTTGTTGAAAATCGGG  
CCTTAAAAGATGAAGAAAAGATGGAACTCCAGGAAATCTAACTCCAAGAAGCTAAGCACATTGCAGAAGAGGCAG  
ATAGGAAGTATGAAGAGGTGGCTCATAAGTTGGTGATCATTGAAGGAGACTTGGAAGGCACGGAGGAACGAGCTG  
AGCTGGGAGAGTCCCGTTGCCAAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTG  
CTGCTGAAGAAATGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAACTCAAGG  
AGGCAGAGACCAGTGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATA  
AACTGAAACGCACCAAAGAGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGATTGACCTGAATGAGA  
TGTAGAACGCCCCAGTCCCACCCTGCTGCTGCTCCTCCCTCTTCTCAGAGAATCCAGCTGGGCTAGAGGCTGAGC  
ACCTTTGGAAACAACATTTAAGGGAATGTGAGCACAAATGCATAATGTCCTTTAAAAGCATGTTGTGATG

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**FIGURE 1012**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTACCATTGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTTACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGCCAGTGACAACCTGATCCCCAAATAAGAGATAAAGAAGACCCCTCAAGAGATGC  
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAAGGGTGGATC  
AGGTTCTCCTCAAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTGATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTACCGAAGAGGAAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAAGAAAATGAAACACGGATCCTCAGTGAAGTGCAATTCGGAATG  
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGAAAGAACTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACCTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT  
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGATTGAGATTACGGTGAGCCCTTTCAGGAAGCAA  
TGTGGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAATGTACACGGTGGCATGGTTTTGTGCGAGACATGCGCC  
TGATGTTTTGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAT  
TTGAAAAAGATCTCAAAGACGTGCTCGGTTTTTCATGAAGCCAATGACGGCGGTTTTCTGGACTCTTCCTTGAACCT  
GTTCTGTAAAGACTGAAGCATCCCCACCTCAGGATTGAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGT  
GAGTCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTT  
ATTCTTTCTTTTTACCTTTAAAAGTCTATATCTA

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**FIGURE 1013**

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMP SLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRRCI WSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARSKRSKEKKKEKD ICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKGSSVKCIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEGMTL  
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPVEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFYKASDFGQVGLDLEAEFEKDLKDVL  
GFHEANDGGFWTLP

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**FIGURE 1014**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTACCATTGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAGAAAGATGTATCTGGTCAACTCCAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCCCTCAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCAGAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAGAAAGAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAATGAAACACGGATCCTCAGTGAAAGTGCATTTCGGAATG  
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAGGAAGGAACGCAAGAACTGGAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAGTGGACTTTTGCTCTGTCTCCCAAGAATAAATC  
TCAAGAGAGAGTTAAATAGCAAGTGAATTTCTACTACCCTCTCAGTCACCATGTTGCAGACTTTCCCTGTCTGGA  
GGCTCACCTTAGAGCTTCTGAGTTTCCAAGCTCTGAGTCACCTCCACATTTGGGCATGGCATCTTCAAAACAATT  
AATTTGCATAGTTAATTTGGGATGGGGAAGCAAATGACTCTAAATAAAAAATTAAATGAAAAAGCTCAAAAAA  
AAAAAAAAAAAA

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**FIGURE 1015**

MFTMTRAMEEALFQHFMHQKLGAIAYAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMP SLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRKCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKKKEKD ICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKGSSVKCIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEGRTL  
GELLKSGLLLCPPRINLKRELNSK



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**FIGURE 1016**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAGAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAAGTCAAGAGTCAATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAGAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTACCGAAGAGGAAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAATGAAACACGGATCCTCAGTGAAGTGCATTTCGGAATG  
AGGATGGAAGTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAGGAAGGAACGCAAGAAGTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACCTTCTGCTGCGGTACTTGTCCACGAGTCTTCATGAGGACTGTCACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT  
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATGTGAGTTTCTCCTCTTGAAGGCCTACTGTC  
ATCCACAAAGCTCCTTTTTTACGGGCATCCCATTTAATATTCGAGATTACGGTGAGCCCTTTCAGGAAGCAATGT  
GGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAAATGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGA  
TGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAATTTG  
AAAAAGATCTCAAAGACGTGCTCGGTTTTATGAAGCCAATGACGGCGGTTTCTGGACTCTTCTTGAACCTGTT  
CTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGTGAG  
TCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCTCCATCTTTATT  
CTTTCTTTTTACCTTTAAAGTCTATATCTA

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**FIGURE 1017**

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRKCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKEKKEKDICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKGSSVKCIRNEDGTWLTNPNEFEVEGKGRNAKNWKRNI RCEGMTL  
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLKCEFLLLKAYCHPQSSFFTGIPFNIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFY  
KASDFGQVGLDLEAEFEKDLKDVLGFHEANDGGFWTLP

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**FIGURE 1018**

ATGCTGGGTACGCTGCGCGCCATGGAGGGCGAGGACGTGGAAGACGACCAGCTGCTGCAGAAGCTCAGGGCCAGT  
CGCCGCCGCTTCCAGAGGCGCATGCAGCGGCTGATAGAGAAGTACAACCAGCCCTTCGAGGACACCCCGGTGGTG  
CAAATGGCCACGCTGACCTACGAGACGCCACAGGGATTGAGAATTTGGGGTGGAAGACTAATAAAGGAAAGAAAC  
AAAGGAGAGATCCAGGACTCCTCCATGAAGCCCGCGGACAGGACAGATGGCTCCGTGCAAGCTGCAGCCTGGGGT  
CCTGAGCTTCCCTCGCACCGCACAGTCTGGGAGCCGATTCAAAAAGCGGTGAGGTGATGCCACGTCAGACCAG  
GAAGAGTCAGTTGCTTGGGCCTTAGCACCTGCAGTGCCTCAAAGCCCTTTGAAAAATGAATTAAGAAGGAAATAC  
TTGACCCAAGTGGATATACTGCTACAAGGTGCAGAGTATTTTGAGTGTGCAGGTAACAGAGCTGGAAGGGATGTA  
CGTGTGACTCCGCTGCCTTCACTGGCCTCACCTGCCGTGCCTGCCCCGGATACTGCAGTCGTATCTCCGGAAAG  
AGTCCTGGTGACCCAGCGAAACCAGCTTCATCTCCCAGAGAATGGGATCCTTTGCATCCTTCTCCACAGACATG  
GCCTTAGTACCTAGAAAATGACAGCCTCTCCCTACAAGAGACCAGTAGCAGCAGCTTCTTAAGCAGCCAGCCCTTT  
GAAGATGATGACATTTGCAATGTGACCATCAGTGACCTGTACGCAGGGATGCTGCACTCCATGAGCCGGCTGTTG  
AGCACAAAGCCATCAAGCATCATCTCCACCAAACGTTTCATCATGCAAACTGGAAGTGCAGGAGGAGGCACAGA  
TATAAGAGCAGGATGAACAAAACATATTGCAAAGGAGCCAGACGTTCTCAGAGGAGCTCCAAGGAGAACTTCATA  
CCCTGCTCTGAGCCTGTGAAAGGGACAGGGGCATTAAAGAGATTGCAAGAACGTATTAGATGTTTCTTGCCGTAAG  
ACAGGTTTTAAATTTGGAAGGAGCTTTTCTTGAAGTCAACAGACCCCAATCCATAAGTTAGATCCAAGTTGGAAG  
GAGCGCAAAGTGACACCCCTCGAAGTATTCTTCCTTGATTTACTTCGACTCCAGTGCAACATATAATCTTGATGAG  
GAAAATAGATTTAGGACATTAAATGGTTAATTTCTCCTGTAAAAATAGTTTCCAGACCAACAATACGACAGGGC  
CATGGAGAGAACCGTCAGAGGGAGATTGAAATCCGATTTGATCAGCTTCATCGGGAATATTGCCTGAGTCCCAGG  
AACCAGCCTCGCCGGATGTGCTCCCGGACTCCTGGGCCATGAACATGTACAGAGGGGGTCTGCGAGTCCCTGGT  
GGCCTTCAGGGCTTAGAAACCCGAGGCTGAGTTTACCTTCAGCAAAGCAAAGCAAAAAGTTTAAGTGAGGCT  
TTTGAACCTTAGGCAAAAGATCTCTGGAAGCAGGTAGGTGCCTGCCAAGAGCGATTTCATCTTCATCACTTCCA  
AAGACCAACCCACACACAGCGCAACTCGCCCGCAGCAGACATCTGACCTTCACGTTGAGGAAATAGTTCTGGA  
ATATTTAGAAAGTCAGTGTACCCAGCAAACTCTTTAGTCCCAGATAAAGAAGTGCCAGGCCACGGAAGGAAT  
CGTTACGATGAAATTAAGAAGAATTTGACAAGCTTCATCAAAAGTATTGCCTCAAATCTCCTGGGCAGATGACA  
GTGCCTTTATGTATTGGAGTGTCTACAGATAAAGCAAGTATGGAAGTTGATATCAAACAGAAGGCTTCTTAGGA  
AAATTAAATCCAGACCCCTCACTTCCAGGGTTTCCAGAAGTTGCCATCATCACCCCTGGGGTGAGAAAAAGTCTA  
CTGGGCTCAACTGCAATTGAGGCTCCTTCATCTACATGTGTGCTCGTGCCATCACGAGGGATGGCACGAGGGAC  
CATCAGTTCCCTGCAAAAAGACCCAGGCTATCAGAACCCAGGGCTCCGGACGCCAGGGCAATTCCTGGGTGCC  
TCAGATGGGGTGACAAACACCGTCAGACCGGGAGACCAGGGCAGCTCTTCAGACCCCAACTCAGAAGAGAGAGGA  
GAGAACACGTCTTACAGGATGGAAGAGAAAAGTGATTTTCATGCTAGAAAAATTGGAACTAAAAGTGTGTAGCTA  
GGTTATTTTCGGAGTGTTATTTATCTTCCCACTTGCTCTCTGTTTGTATTTTTGTTTTGTTTTGATTCTTGAGAC  
TGTGAGGACTTGGTTGACTTCTCTGCCCTTAAAGTAAATATTAGTGAAATTGGTTCCATCAGAGATAACCTCGAG  
TTCTTGGTGTAGAAATTATGTGAATAAAGTTGCTCAATTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1019**

MLHSMSRLLSTKPSSIISTKTFIMQNWNCRRRHRYKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGTGALRDCK  
NVLDVSCRKTGLKLEKAFLEVNRPQIHKLDPSWKERKVTSPKYSSLIYFDSSATYNLDEENRFRTLKWLISPVKI  
VSRPTIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASPGGLQGLETTRRLSLPSSK  
AKAKSLSEAFENLGKRSLEAGRCLPKSDSSSSLPKTNPTHSATRPQQTSDLHVQGNSSGIFRKSVSPSKTLSVPD  
KEVPGHGRNRYDEIKEEFDKLHQKYCLKSPGQMTVPLCIGVSTDKASMEVRYQTEGFLGKLNPDPHFQGFQKLPS  
SPLGCRKSLLGSTAIEAPSSSTCVARAITRDGTRDHQFPKRPRLSEPQGSGRQGNLGLASDGVNTVRPGDQGSS  
SQPNSEERGENTS YRMEEKSDFMLEKLETKSV

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**FIGURE 1020**

AAGACCGTCCCGGATGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCGCTTCT  
GCTGGTTGCTTCATGCTGCAGGCTGCGGCCGTCAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGCCGGGGCAGCA  
AGTGACATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGC  
CGGGACCGGCTGCAGAGACAGGCGTTCGAGGAGATCATCCTGCAGTATAACAAATTGCTGGAAAAGTCAGATCTT  
CATTCAGTGTGGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGTCCCGGACAT  
GATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCCAACTGAGGATTAAGCACCAAGAGGAAGTACTGAA  
TTACACAAGAAACGTGGGGAGTTAGCTCAACTGGTGATTGACCTGAATAACCAATGCAGCGGAAGGACAGGGAG  
ATGCAGAAAGAGCTTGCAAGCAGCAAAAGGAACCTCTACCAGTCAACAGGATGATGACATTGAGGTCATTGTG  
GATGAAACTTCTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCG  
CAGCCTGCTGGAGGCCCTTCTGGATTCTGTCACTAATATCTTTGGGAGACGCTCTGTCTCTTCCCTTCCCAGTCCCC  
CAGGACAATGTGGATACTCATCCTGGTTCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCTTCGAT  
GCACATGATGGGGAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGACCGC  
AGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCTGGCAGTAATGCAGGAATT  
ACAAGCATTGAATTTGATAGTGCTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACT  
GTGGATGATTATCGATTACGGGTAAGACCCAGTTAAGAAAGTTAGTGCAATCTCCAACTTCATGTGGTGTTATC  
AAGGCACAACTGGCAGGTGCTTAATTAGGGGACTTTGTTTTCCCAAAAATCATGCTTGATTACCCCTGCCCTTC  
CTTTCCTCCTTGGGGAAATCTGTGTTTCCACTTTATACTCTTTGTCCAAACTCAGTTTCAAATATTTGC~~AA~~TG  
GGACCTCACATTTGCATGAAAACCTTGGAATACTCTTCATAAGGACTAAATACTTTGGTAGATAGCAATTTTGG  
CTTAATGGCACAGAACTTAGCAACAGCATGTGAATTGTGATTCTGTGGGCTCTAAAACCTAATTACCTAAAGTG  
GGATATAGAAGTACAAATGGATGTATCATAGGGATAAGACAATTCTGAAACAAAACCTCCAAGCTGAGAAAGAGG  
GGACAGGTGTCAGAGCAGGGAGAAATGATTGGATGTTGAGGAAAGCTGCATTGTAACCAAACTTGCCAAGAATT  
CTCTTGGCATCTGACAGAGAGACCAAACTTGGTTGTATCATTTTTGATTGGGGCAGGGGGCGGAGGGCGAAGCA  
TGTAACCTAATTTGCAGACATTTTTTTTTCCCCATAAGCCTGAAGGAATCATCACATAAGCTTATTAAATACAAGC  
TATTGAAAGATATAATGGAGGATGAATTTGGCATTAGTAGGCATTTTACT

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**FIGURE 1021**

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLLKSDLHSVLAQKLQAEKHDVPNRHEISPGHDG  
TWNDNQLQEMAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRKDREMQLAEAAKEPLPVEQDDIEVIVDE  
TSDHTEETSPVRAISRATKRLSQPAGGLLDVNTNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAH  
DGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTV  
DYRLRVRPS

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**FIGURE 1022A**

AAGAGAGAAGGCTTCTGCCAGCTCCTGCAGCAGATGAAGAACAAGCACTCAGAGCAGCCGGAGCCGACATGATC  
ACCATCTTCATCGGCACCTGGAACATGGGTAACGCCCCCCTCCCAAGAAGATCACGTCCTGGTTTCTCTCCAAG  
GGGCAGGGAAGACGCGGGACGACTCTGCGGACTACATCCCCATGACATTTACGTGATCGGCACCCAAGAGGAC  
CCCCTGAGTGAGAAGGAGTGGCTGGAGATCCTCAAACACTCCCTGCAAGAAATCACCAGTGTGACTTTTAAACA  
GTCGCCATCCACACGCTCTGGAACATCCGCATCGTGGTGCTGGCCAAGCCTGAGCACGAGAACC GGATCAGCCAC  
ATCTGTACTGACAACGTGAAGACAGGCATTGCAAACACACTGGGGAACAAGGGAGCCGTGGGGGTGTCTGTTTCATG  
TTCAATGGAACCTCCTTAGGGTTTCGTCAACAGCCACTTGACTTCAGGAAGTGAAAAGAACTCAGGCGAAACCAA  
AACTATATGAACATTCTCCGGTTCTTGGCCCTGGGCGACAAGAAGCTGAGTCCCTTTAACATCACTACCCGCTTC  
ACGCACCTCTTCTGGTTTGGGGATCTTAACCTACCGTGTGGATCTGCCTACCTGGGAGGCAGAAACCATCATCCAG  
AAAATCAAGCAGCAGCAGTACGCAGACCTCCTGTCCACGACCAGCTGCTCACAGAGAGGAGGGAGCAGAAAGGTC  
TTCTTACACTTCGAGGAGGAAGAAATCACGTTTGCCCCAACCTACCGTTTGTAGAGACTGACTCGGGACAAATAC  
GCCTACACCAAGCAGAAAGCGACAGGGATGAAGTACAACCTTGCCCTCCTGGTGTGACCGAGTCTCTGGAAGTCT  
TATCCCTGGTGCACGTGGTGTGTCTAGTCTTATGGCAGTACCAGCGACATCATGACGAGTGACCACAGCCCTGTC  
TTTGCCACATTTGAGGCAGGAGTCACTTCCAGTTTGTCTCCAAGAACGGTCCCGGGACTGTTGACAGCCAAGGA  
CAGATTGAGTTTCTCAGGTGCTATGCCACATTGAAGACCAAGTCCCAGACCAAATTCTACCTGGAGTTCCACTCG  
AGCTGCTTGAGAGTTTTGTCAAGAGTCAGGAAGGAGAAAATGAAGAAGGAAGTGAGGGGGAGCTGGTGGTGAAG  
TTTGGTGAGACTCTTCCAAAGCTGAAGCCCATTATCTCTGACCTGAGTACCTGCTAGACCAGCACATCCTCATC  
AGCATCAAGTCTCTGACAGCGACGAATCCTATGGCGAGGGCTGCATTGCCCTTCGGTTAGAGGCCACAGAAACG  
CAGCTGCCCATCTACACGCCTCTACCCACCATGGGGAGTTGACAGGCCACTTCCAGGGGGAGATCAAGCTGCAG  
ACCTCTCAGGGCAAGACGAGGGAGAAGCTCTATGACTTTGTGAAGACGGAGCGTGATGAATCCAGTGGGCCAAAG  
ACCCTGAAGAGCCTCACCAGCCACGACCCCATGAAGCAGTGGGAAGTCACTAGCAGGGCCCCCTCCGTGCAGTGGC  
TCCAGCATCACTGAAATCATCAACCCCACTACATGGGAGTGGGGCCCTTTGGGCCACCAATGCCCTGCACGTG  
AAGCAGACCTTGTCCCTGACCAGCAGCCACAGCCTGGAGCTACGACCAGCCGCCCAAGGACTCCCCGCTGGGG  
CCCTGCAGGGGAGAAAGTCTCCCTCCAGGACACAGGAGTCAAGGCCAGTGACCTGGGGAAGAACGCAGGGGACACGCTG  
CCTCAGGAGGACCTGCCGCTGACGAAGCCCAGATGTTTGAGAACCCCTGTATGGGTCCCTGAGTTCCTTCCCT  
AAGCCTGCTCCCAGGAAGGACCAGGAATCCCCAAAATGCCGCGGAAGGAACCCCGCCCTGCCCGGAACCCGGC  
ATCTTGTGCGCCAGCATCGTGCTACCAAAGCCCAGGAGGCTGATCGCGCGAGGGGCGCGCAAGCAGGTGCC  
GCGCCCCGGCTGCGCTCCTTACGTGCTCATCCTCTGCCGAGGGCAGGGCGCGCGGGGACAAGAGCCAAGGG  
AAGCCCAAGACCCCGGTGAGTCCCAGGCCCCGGTGCCGCCAAGAGGCCCATCAAGCCTTCCAGATCGGAAATC  
AACCAGCAGACCCCGCCACCCGACGCGCGCGCGCGCTGCCAGTCAAGAGCCCGCGGTGCTGCACCTCCAG  
CACTCCAAGGGCCGCGACTACCGCGACAACACCGAGCTCCCGCATCACGGCAAGCACCGGCCGAGGAGGGGCCA  
CCAGGGCCTCTAGGCAGGACTGCCATGCAGTGAAGCCCTCAGTGAGCTGCCACTGAGTCGGGAGCCAGAGGAAC  
GGCGTGAAGCCACTGGACCTCTCCCGGACCTCCTGCTGGCTCCTCTGCCAGCTTCCTATGCAAGGCTTTGT  
GTTTTAGGAAAGGGCCTAGCTTCTGTGTGGCCACAGAGTTCACTGCCTGTGAGACTTAGCACCAAGTGTGAG  
GCTGGAAGAAAAACGCACACCAGACGGGCAACAAACAGTCTGGGTCCCCAGCTCGCTCTTGGTACTTGGGACCCC  
AGTGCCTCGTTGAGGGCGCCATTCTGAAGAAAGGAAGTGCAGCGCCGATTTGAGGGTGGAGATATAGATAATAAT  
AATATTAATAATAATAATGGCCACATGGATCGAACACTCATGATGTGCCAAGTGCTGTGCTAAGTGCTTTACGAA  
CATTGCTCATATCAGGATGACCTCGAGAGCTGAGGCTCTAGCCACCTAAAACCACGTGCCCAAACCCACAGTTT  
AAAACGGTGTGTGTTCCGAGGGGTGAAAGCATTAAGAAGCCCAGTGCCCTCCTGGAGTGAGACAAGGGCTCGGCC  
TTAAGGAGCTGAAGAGTCTGGGTAGCTTGTTTAGGGTACAAGAAGCCTGTTCGTCCAGCTTCACTGACACAAGC  
TGCTTTAGCTAAAGTCCCGCGGGTTCCGGCATGGCTAGGCTGAGAGCAGGGATCTACCTGGCTTCTCAGTTCCTT  
GGTTGGAAGGAGCAGGAAATCAGCTCCTATTCTCCAGTGGAGAGATCTGGCCTCAGCTTGGGCTAGAGATGCCAA  
GGCCTGTGCCAGGTTCCCTGTGCCCTCCTCGAGGTGGGCAGCCATCACCAGCCACAGTTAAGCCAAGCCCCCAA  
CATGTATTCCATCGTGCTGGTAGAAGAGTCTTTGCTGTTGCTCCCGAAAGCCGTGCTCTCAGCCTGGCTGCCAG  
GGAGGGTGGGCCTCTTGGTTCCAGGCTCTTGAAATAGTGCAGCCTTTTCTTCTATCTGTGGCTTTTCAAGCTCT  
GCTTCTTGGTTATTAGGAGAATAGATGGGTGATGTCTTCTTATGTGCTTTTCAACATAGCAGAATTAATG  
TAGGGAGCTAAATCCAGTGGTGTGTGTAATGCAGAAGGAATGCACCCACATCCCATGATGGAAGTCTGCGT

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**FIGURE 1022B**

AACCAATAAAATTGTGCCTTTCTCACTCA



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**FIGURE 1023**

MKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKGQKTRDDSDYIPHDIIYVIGTQEDPLSEKEWLEIL  
KHSLQEITSVTFTKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNGAVGVSFMFNGTSLGFVNS  
HLTSGSEKKLRRNQNYMNILRFLALGDKKLSPFNITHRFTHLFWFGDLNRYVDLPTWEAETIIQKIKQQQYADLL  
SHDQLLTERREQVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSY  
GSTSDIMTSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQE  
GENEEGSEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHH  
GELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEIINPNY  
MGVGPFPGPPMPLHVKQTLSPDQOPTAWSYDQPPKDSPLGFCRGESEPTPPGQPPISPKKFLPSTANRGLPPRTQE  
SRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPPKAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKA  
QEADRGEKPGKQVPAPRLRSFTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPTPTPR  
PPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGPLGRTAMQ

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**FIGURE 1024**

CGAGCGGACTCGACTCGGCACCGCTGTGCACCATGCCCCGGGCCCTGTGCCGCCTCCCGCGGCGCGGCCTCTGGC  
TGCTCCTGGCCCATCACCTCTTCATGACCACTGCCTGCCAGGAGGCTAACTACGGTGCCCTCCTCCGGGAGCTCT  
GCCTCACCCAGTTCCAGGTAGACATGGAGGCCGTCGGGGAGACGCTGTGGTGTGACTGGGGCAGGACCATCAGGA  
GCTACAGGGAGCTGGCCGACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTGG  
ACAGGTTCTTCCTGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCCATCTCAGGCAGGGCCGTGCGGGACCCGC  
CCGGCAGCATCCTCTACCCCTTCATCGTGGTCCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGC  
AGAGCAAGCGCACTGAGGGCATTGTGTAGGCGGGGGCCAGGCTGCCCGCGGGTGACCCAGGCTGCAGGGTGAGG  
CCAGGCAGGCCTGGGTAGGGGCAGCTTCTGGAGCCTTGGGACAGAGCAGGCCCACAATGCCCCCTTCTTCCAGC  
CAAGAAGAGCTCACAGGAGTCCAGAGTAGCCGAGGCTCTGGTATTAACTGGAAGCCCCCTGGCTGGAGGCCAC  
CGCCACCCTAGGAAGGGGGCAGGGACGTGACCTTGACTTACCTCTGGAAAGGGTCCCAGCCTAGACTGCTTACCC  
CATAGCCACATTTGTGGATGAGTGGTTTGTGATTAAAAGGGATGTTCTTG

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**FIGURE 1025**

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRITIRSYRELADCTWH  
MAEKLGCFWPNAEVDREFFLAVHGRYFRSCPISGRAVRDPPGSILYPFIVVPITVTLLVTALVVWQSKRTEGIV

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**FIGURE 1026A**

GGCAGAGGCCGCTCCCCGGCGGGCTGGCTCCTGGCCCCGGAAGCGCGAGCGTTCACTTAGCGGCGAGTGGCTCC  
GTCTCCGCGGACAGAGCGCGCCCCCTGGCCCCGGCCGCGAGGGGCTCCCGGCGCGGTCCCCGAGCATTTCCTCG  
CCGGGTGGAGCGGGCCGAGCCCCGGCAGGATGACCAGCCCCGCGGCGCTCAAAGCCGGGAGATCGACTGTTTGAG  
CCCGGAAGCGCAGAAGCTGGCGGAAGCCCCGGCTCGCTGCAAAACGGGCGGCCCCGCGCGGAGGCTCGCGAGATCCG  
CATGAAGGAGCTGGAGCGGCAGCAGAAGGAGGAAGACAGTGAGCGCTACTCTCGTAGATCCAGAAGAAACACATC  
GGCTTCTGATGAAGACGAGCGCATGTCACTGGGTAGTCTGGAAGCCTGAGGGTAGAAGAGAGACCAGAAAAAGA  
TTTTACTGAGAAGGGGTCTCGTAACATGCCGGGCTGTCTGCAGCCACGCTGGCCTCTCTGGGTGGGACTTCCTC  
TCGGAGAGGCAGCGGAGACACCTCCTTCTCCATCGACACCGAGGCATCCATCAGGGAAATCAAGGACTCTCTAGC  
AGAAGTTGAAGAGAAATATAAGAAGGCTATGGTTTCCAATGCTCAGCTAGACAATGAAAAGACAACTTCATGTA  
CCAGGTTGATACCCTAAAAGATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGGCGGCAGTACGAAGA  
GAAAAACAAAGAATTTGAAAGGGAAAAACACGCCCACAGTATACTGCAATTTCAGTTTGCTGAAGTCAAGGAGGC  
CTGAAGCAAAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCTACCAATGGAGAGAC  
TTCCGACACCCTCAATAATGTTGGATACCAAGGTCCTACCAAGATGACAAAAGAAGAGTTAAATGCCCTCAAGTC  
TACAGGGGATGGGACCCTAGGAAGAGCCAGTGAAGTGGAGGTGAAAAATGAAATCGTGGCGAATGTGGGGAAAAAG  
AGAAATCTTGCACAATACTGAGAAAGAACAACACACAGAGGACACAGTGAAGGACTGTGTGGACATAGAGGTATT  
CCCTGCTGGTGAGAATACCGAGGACCAGAAATCCTCTGAAGACACTGCCCCATTCTAGGAACCTTAGCAGGTGC  
TACCTATGAAGAACAGGTTCAAAGCCAAATTTCTTGAGAGCAGTTCTCTCCCTGAAAACACAGTACAGGTTGAGTC  
AAATGAGGTCATGGGTGCACCAGATGACAGGACCAGAACTCCCCTTGAGCCATCCAAGTGTGGAGTGACTTAGA  
TGGTGGGAACCACACAGAGAATGTGGGAGAGGCAGCAGTGAAGTGAAGAGCAGGCAGGCACAGTGGCCTC  
GTGTCCTTTAGGGCATAGTGATGACACAGTTTATCATGATGACAAATGTATGGTAGAGGTCCCCAAGAGTTAGA  
GACAAGCACAGGGCATAGTTTATAGAGAAAGAATTCACCAACCAGGAAGCAGCTGAGCCCAAGGAGGTTCCAGCGCA  
CAGTACAGAAGTAGGTAGGGATCACAACGAAGAAGAGGGTGAAGAAACAGGATTAAGGGACGAGAAACCAATCAA  
GACAGAAGTTCTGGTCTCCAGCAGGAAGTGAAGGCAACTGTGAGGAAGCGACAGGTCCAAGTACAGTAGACAC  
TCAAAATGAACCCTTAGATATGAAAGAGCCCGATGAAGAAAAGAGTGACCAACAGGGAGAGGCATTGGACTCATC  
GCAGAAGAAGACAAAGAACAAGAAAAAGAAAAACAAGAAGAAAAAATCCCCAGTACCCGTAGAAACCCTTAAAGA  
TGTTAAAAAGAGTTAACGTATCAGAACACAGATTTAAGTGAAATTAAGGAAGAAGAGCAGGTAAAGTCTACTGA  
CAGAAAGTCAGCAGTGAAGCCCCAAACGAGGTGACTGAAAATCCAAAACAGAAAATTGCAGCAGAAAGCAGTGA  
AAATGTTGATTGTCCGAGAATCCTAAATTAAGTTGGATGAAAACTTGACCAAGAAGGTGATGATGTACAAAC  
AGCAGCTGAGGAGGTACTAGCTGATGGAGACACATTAGATTTTGGAGATGACACCGTTCAATCATCAGGCCCGAG  
GGCTGGTGGTGAAGAAATTAGATGAAGGTGTTGCAAAAGATAATGCTAAAAATAGATGGTGCCACTCAAAGCAGTCC  
TGCAGAACCAAAGAGCGAAGACGCAGATCGCTGCACCCTGCCCCGAACATGAAAGTCCCTCACAGGACATTAGTGA  
TGCCTGTGAAGCAGAAAGTACAGAGAGGTGTGAGATGTGAGAACATCCAAGTCAGACCGTCAGGAAAGCTTTAGA  
CAGCAATAGCCTAGAGAACGATGACTTGTGCGCACCCAGGAAGAGAGGCCAGGGCACTTCAATCCAGAAAGCAGAGA  
AGATACCAGAGGAGGGAATGAGAAGGGCAAAAGCAAAGAAGACTGTACCATGTCCTAAGCTGAGGCAGGCGGCAG  
GCGCGGTGCACAGGAAGTCTCAGTGTGAAGGGGTCTTTTCTCTCCACTGCCAATGTAAGTAGAATGTTCTAAATT  
CATAGAGAGGCACTGTATGACAATTACCAGGTGCTCTACTGCTTTAAGTTATAGACTGTTACTTGTAGATTTCCA  
TGTAATCATTGAGGTTATCACCCAGATTAGAAAGACATATTTGTTATCAGTGTACGTTCTAATTGAGAGCATTCC  
AGTAGTATCAACAATAATGTCTACTGTTTATAGTCCACTTAATAAAAAATAGAGGCATTTACTATTTGCCTTAGG  
CTGATAGGAATGTGGGTTTTCTTGACCAAATATATCAGCATCTAATTGAAATGACCAAATAGCATTCTTAGACTT  
CTGTATTATGAATATAATTGATATTTAAATTAATGTCTTGTTACATATGTGTACTTTTCATATTTGATTTTAAAA  
TGTACATTATAACCTGTATGGTATTTTAAAGGAGATAAACAGCCAAATAGCAAATAGGTCAGTGAATGATA  
AGATTTGCACCTTAGAACAATAATCATTTTAAAGGATAACAAGTAAATGTCTGAAAGCATGAGGGGCTTTATTTGC  
CTTTACCTCATATGAGTCTTTGATCTTGAACCGATACTTTTGGATCTCATTGTTGATATACCTGAATTTACTTTG  
TAAGAGATTTTAACTTCATTCTGCTGATGATGTATCAAATTCATTTTATAGAAAAGATTTAAAGTTTTTTCTG  
GAAGTGATATATGTCAAATTACATTCTCTACTGCAGTATTTGAGCAGGGACAGTCATTTTTTAAATGTTTTTGGC  
CGGGCGTGGTGGCTCATGCCTGTAATCTCAGTACATTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAAGAGT  
TCGAGGCCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTGGCCGGGCGTGATGGTG  
GGCGCTGTAATCCCAGCCACTCCAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGCGAGGCAGAGATTGCAGTG

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**FIGURE 1026B**

AGCCAAGATCAAGCCATTGTACTCCAGCCTGGACAACAAGAGCGAAACTCTGTCTA

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**FIGURE 1027**

MTSPAAAQSREIDCLSPEAQKLAEARLAAKRAARAEAREIRMKELERQQKEEDSERYSRRSRNRNTSASDEDERMS  
VGSRGSLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRSGDTSFSIDTEASIREIKDSLAEVEEKYKKA  
MVSNAQLDNEKTNFMYQVDTLKDMLLELEEQLAESRRQYEEKNKEFEREKHAHSILQFQFAEVKEALKQREEMLE  
KHGIILNSEIATNGETSDTLNNGYQGPTKMTKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKE  
QHTEDTVKDCVDIEVFPAGENTEDQKSSED TAPFLGTLGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDD  
RTRTPLEPSNCWSDLDGGNHTENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQELETSTGHSLEK  
EFTNQEAAPKEVPAHSTEVGRDHNEEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLDMKE  
PDEEKSDQQGEALDSSQKKTNNKKKKNNKKKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDRKSAVEAQN  
EVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEG  
VAKDNAKIDGATQSSPAEPKSEDADRCTLPEHESPSQDISDACEAESTERCCEMSEHPSQTVRKALDSNSLENDL  
SAPGREPGHFNPESEDTRGGNEKGKSKEDCTMS

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**FIGURE 1028A**

CAGTTTGGAGCTCAGTCTTCCACCAAAGGCCGTTTCAAGTTCTCCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG  
TTTTCTCCGCAGCTCTGAGTCTCCACTTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAAGAGACGCAGTGAGTG  
GGAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCAGGGACACACGCCCTTCAGGTTTGCTCAGGG  
GTTTATATTGGTGTCTTAGACAAATTCAAATGAGGAACATCGGCACTTGCCCTTAGTGCCGCTCTTTTGCCCTC  
TTTCTCTCAGGCTTTCCTACAACCTCATGCCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGCGGCTGCTGATATA  
ATATTTCTAGTGGATTCTCTTGGACCATTGGAGAGGAACATTTCCAACCTGTTCGAGAGTTTCTATATGATGTT  
GTAAAATCCTTAGCTGTGGGAGAAAATGATTTCCATTTTGCTCTGGTCCAGTTCAACGGAAACCCACATACCGAG  
TTCTGTGTTAAATACGTATCGTACTAAACAAGAAGTCCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC  
AATCAGACTGGAAAAGGATTAGAAATACATAATGCAAAGCCACCTCACCAAGGCTGCTGGAAAGCCGGGCGCGGTGAC  
GGAGTCCCTCAGGTTATCGTAGTGTTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACCTT  
AAGTCTGCTGATGTTAACGTGTTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAAGAAATAGCAAGT  
GAACCGCTCAATATGCATATGTTCAACCTAGAGAATTTTACCTCACTTCATGACATAGTAGGAACTTAGTGTTCC  
TGTGTGCATTATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCCCTTAAAGACATCACAGCACAAAGACTCT  
GCTGACATTATTTTCTTATTGATGGATCAAACAACCCGGAAGTGTCAATTTTCGAGTCATTCTCGACTTCCTT  
GTAAATCTCCTTGAGAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC  
AGAACCATGTTCTCTTGGACACCTACTCCACCAAGGCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT  
GGTGGGGAGTTGGCCAATATCGGCCCTCGCCCTTGATTTCTGTTGGTGGAGAACCCTTCAACCGGGCAGGGGGCAGC  
CGCGTGGAGGAAGGGGTTCCTCAGGTGCTGTTCTCATAAGTGCCGGGCCCTTCTAGTGACGAGATTGCTACGGG  
GTGGTAGCACTGAAGCAGGCTAGCGTGTTCTATTGGCCCTTGGAGCCAGGCCCGCCTCCAGGGCAGAGCTTCAG  
CACATAGCTACCGATGACAACCTTGGTGTTTACTGTCCCGGAATTCCTAGCTTTGGGGACCTCCAGGAGAAATTA  
CTGCCGTACATTGTTGGCGTGGCCCAAAGGCACATTGTCTTGAAACCGCCAACCATTGTACACAAGTCATTGAA  
GTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTTCAATGCCATCCGA  
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCCAGTATGCA  
GACACTGTGAGGCCTGAATTTTATTTCATACCCATCCAACAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG  
AAGCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATTCACGAGTTCA  
GCCGGCTACCGGGCTGCCGAGGGGATTCTAAGCTTTTGGTGTGATCACAGGTGGTAAGTCCCTAGATGAAATC  
AGCCAGCCTGCCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGCCGATCAGGCT  
GAGCTGGAAGAGATCGCTTTTCTGACTCCTCCTGGTGTTCATCCAGCTGAGTTCCGAGCCGCCCCATTGCAAGGC  
ATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGGAACCCCTGAAGTTCACTCAAACAAAAGGGATATC  
ATCTTTCTTTTGGATGGATCAGCCAACGTTGGAACCAATTTCCCTTATGTGCGGACTTTGTAATGAACCTA  
GTTAACAGCCTTGATATTGGAATGACAATATTCGTGTTGGTTTGTAGTGCAATTTAGTGACACTCCTGTAACGGAG  
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCTATCTGAGGCAGCTGCAGCTCCAGGGAGGTTTCG  
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGT  
GAACACGTGCCGAGCTCCTGCTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCC  
TTGACACGCGCGGGCATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCGAATAAGGCAGAGCTTGAGCAGATTGCT  
TTTAACCCAAGCCTGGTGTATCTCATGGATGATTTTCACTCCCTGCCAGCTTTGCCTCAGCAGCTGATTACAGCCC  
CTAACCACATATGTTAGTGGAGGTGTGGAGGAAGTACCCTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTT  
CTCTTTGACGGCTCAGCCAATCTTGTGGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCGATGAG  
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT  
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGGGCAAAGCCCTCAAC  
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG  
CTTCAGTTCCTGGTGTGCTGGTTCGAGGAAGGTATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG  
AGTGGGGTTGTGCCTTTCTCTTCCAAGCCAAGAACGCAGACCCCTGCTGAGTTAGAGCAGATCGTGCTGTCTCCA  
GCGTTTATCCTGGCTGCAGAGTGCCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTTAAATCA  
GTGCACAACGGAGCACCAGCACCAGTTTTCAGGTGAAAAGGACGTGGTGTCTGCTTGTGCTGATGGCTCTGAGGGCGTC  
AGGAGCGGTTTCCCTCTGTTGAAAGAGTTTGTCCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTC  
CGCGTGGCCGTGGTGCAGTACAGCGACCGGACCGAGGCCCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC  
GTCGTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCCAACACCGGGGCGCCCTGGAGTTTGTCT

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**FIGURE 1028B**

CTGAGGAACATCCTGGTCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACG  
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCTGTAAGAGGGGTGGGGCTGTGCCCATTGGCATT  
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGACTTTGCGGTGGCCATTCCCACC  
TTTCGCCAGCTGGGGACCGTCCAACAGGTTCATCTCTGAGAGGGTGACCCAGCTCACC CGCGAGGAGCTGAGCAGG  
CTGCAGCCGGTGTTCAGCCTCTACCGAGCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTCATCGATGGG  
TCCCAAAGTGCCGGGCTGAGTTCAGTACGTTCGCACCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC  
TTTGACACCACCCGGGTGGCTGTTCAGTTCAGCGATGACCCCAAGGTGGAGTTCCTGCTGAACGCCCATTC  
AGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGCTGAGGCCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC  
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGGCCCCCTGGGGAGCCGCATTGAAGAGGGCGTCCCGCAGTTCCTG  
GTCCTCATCTCGTCTGGAAGTCTGACGATGAGGTGGACGACCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC  
CCTTTCACGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTCTCG  
GTGAGCACCTTCCGGGAGCTGCCAGCCTGGAGCAGAACTGCTGACGCCCATCACGACCCTGACCTCAGAGCAG  
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGCAGTTGAGAGTGATGCTGCAGACATCGTCTTTCTG  
ATCGACAGCTCTGAGGGAGTTAGGCCAGATGGCTTTGCACATATTGAGATTTTGTAGCAGGATTGTTGGAAGA  
CTCAACATCGGCCCCAGTAAAGTGAGAGTTGGGGTCTGTCAGTTCAGCAATGATGTCTTCCAGAATTCTATCTG  
AAAACCTACAGATCCCAGGCCCCGGTGCTGGACGCCATACGGCGCTGAGGCTCAGAGGGGGTTCCCCACTGAAC  
ACTGGCAAGGCTCTCGAATTTGTGGCAAGAACTCTTTGTTAAGTCTGCGGGGAGTCGCATAGAAGACGGGGTG  
CCCCAACACCTGGTCTGGTCTGGGTGGAAAATCCCAGGACGATGTGTCCAGGTTGCGCCAGGTGATCCGTTCC  
TCGGGCATTGTGAGTTTAGGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATACCAATGACCCC  
AGACTGGTCTTCACAGTGCGAGAGTTTCAGAGAGCTTCCCAACATAGAAGAAAGATCATGAACCTCGTTTGGACCC  
TCCGCAGCCACTCCTGCACCTCCAGGGGTGGACACCCCTCCTCCTTCACGGCCAGAGAAGAAGAAAGCAGACATT  
GTGTTCTGTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAAGTGCTTCGTTTTGTGTCTGAAATA  
GTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCAGTACAACCTTGACCCCACTGACGAA  
TTCTTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAACAAAGTGGTCTACAAAGGGGGAAGA  
CACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCACTTTGTGCCTGAGGCAGGCAGCCGCTGGAC  
CAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCCGGTGAAGATGCACAGGATGTGAGCCTGGCC  
CTCACCAGAGGGGGGTCAAAGTGTGTTGCTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGAAAGATAGCG  
TCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAAGTGAAGCTGAGCGAGCAAGTTTGGAACT  
TTGCATGATGCGATGCATGAAACCTTTGCCCTGGTGAACTGATGCTGCCAAAGCTTGTAATCTGGATGTGATT  
CTGGGGTTTGATGGTTCTAGAGACCAGAATGTTTTTGTGGCCCAAGGGCTTCGAGTCCAAGGTGGACGCCATC  
TTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCGCCACCGTGCCTGTGTGAGTGGTG  
GCCAACACGCCCTCGGGCCCGGTGGAGGCCTTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGTTCCGG  
AACATGCGCAGCCAGCACCCCTACGTCCTCACGGAGGACACCCCTGAAGGTCTACCTGAACAAGTTACAGACAGTCC  
TCGCCGGACAGCGTGAAGGTGGTCATTCAATTTACTGATGGAGCAGACGGAGATCTGGCTGATTTACACAGAGCA  
TCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGGCCCTGAACGAGTGGTCAACTTGGAGCGG  
CTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCTGAGGCTTAAGTTGCTGGACTTGGATTAT  
GAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTTCCCTGCAAGTGCTCTGGGCAGAGG  
GGAGACCGCGGGCCCATCGGCAGCATCGGGCCAAAGGGTATTCTTGAGAGAAGACGGCTACCGAGGCTATCCTGGT  
GATGAGGGTGGACCCGGTGAGCGTGGTCCGCCTGGTGTGAACGGCACTCAAGGTTCAGGGCTGCCCGGGCCAG  
AGAGGAGTAAAGGGCTCTCGGGGATTCCCAGGAGAGAAGGGCGAAGTAGGAGAAATTGGACTGGATGGTCTGGAT  
GGTGAAGATGGAGACAAAGGATTACCTGGTCTTCTGAGAGAAAGGGAATCCTGGAAGAAGGGGTGATAAAGGA  
CCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTTGGGATTCGAGGGGACCCGGGTAAACCCAGGACAAGACAGCCAG  
GAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCATGGGTGTCCAGGGAGAGATGGAGTACCTGGAGGA  
CCTGGAGAACTGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCCGGAGCTAAGGGCAACAAGGGCGGTCTT  
GGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCAGCTGGTCTGCTGGTCTCCAGGG  
CTGATAGGAGAAACAAGGCATTTCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTCTCTGGAGAACGAGGCAGA  
ACCGGTCCACTGGGAAGAAAGGTGAGCCCGGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCGGGGCCCTCGT  
GGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCCAAAAAGGAGAAAGAGGATTT



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**FIGURE 1028C**

CCTGGATACCCAGGACCAAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAACAGGACCCAAAGGCATCAGA  
GGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGACCCTGGCTACCCAGGACCAGCTXXX  
XXXXXXXXGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGCATCAAAGATAAATGCCCTTGCTGT  
TACGGGCCCCCTGGAGTGCCCCGTCTTCCCAACAGAACTAGCCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAA  
GACACTTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGACCTGACCATTGCTGAGAGCAACTGCCCA  
CGGGGGGCCCCGGGTGGCTGTGGTCACCTACAACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGG  
AAGTCGGTCTCTCGGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCC  
ATGTGCTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAATGGATTCTTAATGAGGAAAAGTGGCTGTTTTCTTC  
AGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCC  
TTGTTCTTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATCAATAACACAGCAGTGGGGCATGCG  
CTTGCTCTGCCTGCAGGGAGAGACCTCACAGACTTCTTGAGAATGTCTCAGTGTGATGTTTGCTTGACATC  
TGCAACATCGACCCATCCTGTGGATTGTGGCAGTTGGAGGCCTTCTTCAGGGACAGGAGAGCGGCAGGGAGCGAT  
GTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAGTTCAATGAGATGAAGAAG  
TACATAGCGTACCTGGTCAGACAACTGGACATGAGCCCAGATCCCAAGGCCTCCAGCACTTCGCCAGAGTGGCA  
GTTGTGCAGCACGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTCTCCCTGACT  
GACTATGGCTCCAAGGAGAAGCTGGTGGACTTCTCAGCAGGGGAATGACACAGTTGCAGGGAACCAGGGCCTTA  
GGCAGTGCCATTGAATACACCATAGAGAAATGTCTTTGAAAGTGCCCCAAACCCACGGGACCTGAAAATTGTGGTC  
CTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCAGAGAGTCACTCTGCAGGCCAAATGCAAG  
GGCTACTTCTTCGTGGTCTCGGGCATTGGCAGGAAGGTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCA  
AACGACGTCTTCTCAAATTAGTGGACAAGTCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTG  
TTGCCATCCTTCGTGAGCAGTGAAAATGCTTTTTACTTGTCCCCAGATATCAGGAAACAGTGTGATTGGTTCCAA  
GGGGACCAACCCACAAAGAACCTTGTGAAGTTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGT  
CCTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACAACAAAGCCTGTA  
ACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAGCCGGCCCCCTGCG  
AAACCTGTGGCTGCCAAGCCTGTGGCCACAAAGACGGCCACTGTTAGACCCCCAGTGGCGGTGAAGCCAGCAACG  
GCAGCGAAGCCTGTAGCAGCAAGCCAGCAGCTGTAAGACCCCCGCTGCTGCTGCAAAACCAGTGGCGACCAAG  
CCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCCACCCTAAGCCCATGGTTAAGATG  
TCCCGTGAAGTCCAGGTGTTTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAGAGGCCTGAGCCCCCGGT  
CCTATTTTTTATGACCTCACCGTCACTCAGCCCATGATCAGTCCCTGGTTCTGAAGCAGAACCTCACGGTCACG  
GACCGCGTCATTGGAGGCCTGCTCGCTGGGCAGACATACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTC  
AGAGCCACCTACCATGGAAGTTTTCAGTACAAAGAAATCTCAGCCCCACCTCCACAGCCAGCAAGGTGAGCTTCT  
AGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAA  
GACGAAGGAACCTGCAGGGATTTTCATATTAATAATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGG  
TATGGAGGTTGTGGTGGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCGCTCCTGTGCTC  
GCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAACATCATATACCTCTTGAAGAAGAAG  
GAGTCAGCCATCGCCAACTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTTGCACTGTATCATTTTCATGCTTT  
GATTTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATCAGTATGGTGCTAATGTGTCTGTGGACCC  
TCGCTCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGAATGTTGTGTAACAGTTAGCCACTGCTGGTGTATG  
TGAACATTCTATCAATCCAAATTCCTCTGGAGTTTTCATGTTATGCCTGTTGCAGGCAAATGTAAAGTCTAGAA  
AATAATGCAATGTACGGCTACTCTATATACTTTTGCTTGGTTTCAATTTTTTTTTCCCTTTTAGTTAAGCATGACT  
TTAGATGGGAAGCCTGTGTATCGTGGAGAAACAAGAGACCAACTTTTTTCAATCCCTGCCCCCAATTTCCAGACT  
AGATTTCAAGCTAATTTTTCTTTTTCTGAAGCCTCTAACAATGATCTAGTTTCAAGGAAGCAAAATCCCTTAAT  
CTATGTGCACCGTTGGGACCAATGCCTTAATTAAGAATTTAAAAAAGTTGTAATAGAGAATATTTTTGGCATTC  
CTCTAATGTTGTGTGTTTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTTAATTTTAAATTTTAAATGTTTAGGAA  
ATTTATACAAAGAACTTTTTAATAAGTATATTGAAAGTTT

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**FIGURE 1029**

AGCCCAGCGAGGCCTGTGCTGTGAGGGGCTGTGCTGTGCCAGGGGAGGCCCCGCACCCGGGAAGCCCAGAGGAGA  
GTGTGCACTCACGGAGCCCTCCTGGCAGGGCCGCGTCTCTGGAGCAGCAGACCCGTGTCCCTCTGGGAGGTCAAC  
TGCGGCCTCACAGCTGGGCCTGTCCCAGCACAGCCCTTGTTGGAGGGCGCACCCCCGTGTCTCAGCACCCCACT  
GTTGAGTGCCTTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTGGCTCCTGGGTGCCCATCTGC  
ACCCCTGGCCCTGCTCTGGGCTTCAGTGGAGCCGTGCCACCGTGGGAGTGTCCAGGGTCTTGACGTAGCCCTGAG  
ACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGCTCTGCTCTGGGTGAGGCGAGGCAGCCACC  
CATGATGAGCTCTGCAGCCTTCCCAAGGTGGCTGAGCATGGGGGTCCCTCGTACCCCTTCACGGACAGTGCTCTT  
CGAGCGGGAGAGGACGGGCCTGACCTACCGCGTGCCCTCGTTGCTCCCCGTGCCCCCGGGCCCACCCTGCTGGC  
CTTTGTGGAGCAGCGGCTCAGCCCTGACGACTCCACGCCCACCGCCTGGTGCTGAGGAGGGGCACGCTGGCCGG  
GGGCTCCGTGCGGTGGGGTGCCCTGCACGTGCTGGGGACAGCAGCCCTGGCGGAGCACCGGTCCATGAACCCCTG  
CCCTGTGCACGATGCTGGCAGGGGCACCGTCTTCTCTTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGT  
GCAGATCGCCACGGGAAGGAACGCCGCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGGCCTCTCGTGGGGCAG  
CGCCCGGGACCTCACCGAGGAGGCCATCGGTGGTGCCGTGCAGGACTGGGCCACATTGCTGTGGGTCCCGGCCA  
CGGCGTGAGCTGCCCTCAGGCCGCTGCTGGTACCCGCTACACCTACCGCGTGGACCGCCGAGAGTGTTTTGG  
CAAGATCTGCCGACCGAGCCCTCACTCCTTCGCCTTCTACAGCGATGACCACGGCCGCACCTGGCGCTGTGGAGG  
CCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGGCGGTGGACGGTGGGCAGGCCGGCAGCTTCCTCTA  
CTGCAATGCCCGGAGCCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCACCTCCTTCCTGCCCGC  
AGAGCGCGTGGCTTCCCTGCCCGAGACTGCCTGGGGCTGCCAGGGCAGCATCGTGGGCTTCCCAGCCCCCGCCCC

GAATTGGCAGCCAACATGCGGCGGGAACGCGGCGCGGGGCGAGCAACAGTTCGCAGGAGATGATGGAGGTTGACAGG  
CGGGTCGAGTCTGAAGAAATCCGGCGATGAAGAAGGGGAAGAAACACAGCAGTGGCATCGTGGCCGACCTCAGTGAA  
CAGAGCCTGAAGGATGGGGAGGAGCGGGGGGAGGAGGACCCAGAAGAAGAAACATGAGCTGCCCTGTGGACATGGAA  
ACCATCAACCTGGACAGAGATGCAGAGGATGTTGATTGTAATCACTATCGCATAGGGAAGATTGAAGGATTTGAG  
GTACTGAAGAAAGTGAAAGACTCTCTGCCCTCCGCCAAAAATTTAATTAAATGCATTGAGAATCTGGAGGAGCTACAG  
AGTCTTCGAGAGCTGGATCTTTACGACAACCAGATCAAGAAGATTGAGAATCTGGAGGCGCTAACAGAGCTGGAG  
ATTCTAGATATTTCTTTTAATCTGCTGAGAAAACATCGAAGGGGTTGACAAAGTTGACACGACTGAAAAAACTCTTC  
TTGGTCAACAATAAAATCAGTAAAAATTGAGAACTTAAGCAACTTACATCAACTACAGATGCTAGAGCTGGGATCT  
AACC GCATCCGGGCAATCGAAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTTTTTGGGGAAAAACA AAAAT  
ACTAAACTTCAGAACCTGGATGCGCTCACCAACCTGACAGTCTCTCAGTATGCAGAGCAACCGGCTGACCAAGATC  
GAGGGTCTGCAGAACCTGGTGAACTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGCCTG  
GAGAAACAATAACAACTCACGATGTTGGACATTGCATCAAATAGAATCAAAAAAGATTGAAAAATATCAGCCATCTA  
ACAGAGCTGCAAGAGTTCTGGATGAACGACAATCTCCTTGAGAGCTGGAGCGACCTCGACGAGCTGAAGGGAGCC  
AGGAGCCTGGAGACAGTGTACCTGGAGCGGAACCCCTTGCGAGAAAGGACCCCCAGTACCGGCGGAAGGTCATGCTC  
GCCCTCCCCTCCGTGCGGCAGATCGATGCCACGTTTCGTGAGGTTCTGAGTCTCTTCTGGCTCCTCATGTGGTCCC  
TCTCCTCGGAAGAACTGCCAGCCACGGGTTTTTTAAACCCACCTGTTGCTCCTGAGGTCGTCACTATATCAACAGT  
CACAAACCCAATGGCAATAAAGGCATGACGATAGCTGGCGCGCGACGCCACACACCATTTTCAGATGCCGTT  
GCAATTAATCTTGCCACACTGTC

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**FIGURE 1031**

MAAERGAGQQSQEMMEVDRRVESEESGDEEGKKHSSGIVADLSEQSLKDGEERGEEDPEEEHELPVDMETINLD  
RDAEDVDLNHYRIGKIEGFVLKKVKTLCRLQNLKCIENLEELQSLRELDLYDNQIKKIENLEALTELEILDIS  
FNLLRNIEGVDKLTRKKLFLVNNKISKIENLSNLHQLQMLELGSNRIRAIENIDTLTNLESFLGKNKITKLQN  
LDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYLSHNGIEVIEGLENNNKLTMLDIASNRIKKIENISHLTELQE  
FWMNDNLLESWSDLDDELKGARSLETVYLERNPLQKDPQYRRKVMLALPSVRQIDATFVRF

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**FIGURE 1032A**

CAAAAGCTGGCAGGCTGACAGAGGCGGCCTCAGGACGGACCTTCTGGCTACTGACCGTTTTGCTGTGGTTTTCCC  
GGATTGTGTGTAGGTGTGAGATCAACCATGAGTTCCGTTGCAGTTTTGACCCAAGAGAGTTTTGCTGAACACCGA  
AGTGGGCTGGTTCCGCAACAAATCAAAGTTGCCACTCTAAATTGAGAAGAGGAGAGCGACCCCTCCAACCTACAAG  
GATGCCTTCCCTCCACTTCTGAGAAAGCTGCTTGCTTGAAAGTGCCAGGAACCCCTCTGGAGCCTGGGGGAAC  
AAGATCCGACCCATCAAGGCTTCTGTCACTCAGGTGTTCCATGTACCCCTGGAGGAGAGAAAATACAAGGAT  
ATGAACCAGTTTGGAGAAGGTGAACAAGCAAAAATCTGCCTTGAGATCATGCAGAGAACTGGTGCTCACTTGGAG  
CTGTCTTTGGCCAAAGACCAAGGCCTCTCCATCATGGTGTGAGGAAAGCTGGATGCTGTCAAGAGCTCGGAAG  
GACATTGTTGCTAGACTGCAGACTCAGGCCTCAGCAACTGTTGCCATTCCCAAAGAACACCATCGCTTTGTTATT  
GGCAAAAATGGAGAGAACTGCAAGACTTGGAGCTAAAACTGCAACCAAAAATCCAGATCCCACGCCAGATGAC  
CCCAGCAATCAGATCAAGATCACTGGCACCAAGAGGGCATCGAGAAAGCTCGCCATGAAGTCTTACTCATCTCT  
GCCGAGCAGGACAAACGTGCTGTGGAGAGGCTAGAAGTAGAAAAGGCATTCCACCCCTTCATCGCTGGGCCGTAT  
AATAGACTGGTTGGCGAGATCATGCAGGAGACAGGCACGCGCATCAACATCCCCCACCAGCGTGAACCGGACA  
GAGATTGTCTTCACTGGAGAGAAGGAACAGTTGGCTCAGGCTGTGGCTCGCATCAAGAAGATTTATGAGGAGAAG  
AAAAAGAAGACTACAACCATTGCAAGTGAAGAAATCCCAACACAAGTATGTCATTGGGCCCAAGGGCAAT  
TCATTGCAGGAGATCCTTGAGAGAACTGGAGTTTCCGTTGAGATCCACCCCTCAGACAGCATCTCTGAGACTGTA  
ATACTTCGAGGCGAACCTGAAAAGTTAGGTGAGGCGTTGACTGAAGTCTATGCCAAGGCCAATAGCTTCACCGTC  
TCCTCTGTGCGCGCCCTTCTCGCTTACCGTTTATCATTGGCAAGAAAGGGCAGAACCTGGCCAAAATCACT  
CAGCAGATGCCAAAGGTTACATCGAGTTCACAGAGGGCGAAGACAAGATCACCCCTGGAGGGCCCTACAGAGGAT  
GTCAATGTGGCCAGGAACAGATAGAAGGCATGGTCAAAGATTTGATTAACCGGATGGACTATGTGGAGATCAAC  
ATCGACCACAAGTTCCACAGGCACCTCATTGGGAAGAGCGGTGCCAACATAAACAGAATCAAAGACCAGTACAAG  
GTGTCCGTGCGCATCCCTCCTGACAGTGAGAAGAGCAATTTGATCCGCATCGAGGGGGACCCACAGGGCGTGCAG  
CAGGCCAAGCGAGAGCTGCTGGAGCTTGCATCTCGCATGGAAGTGAAGCGTACCAAGGATCTAATCATTGAGCAA  
AGATTTTCATCGACAATCATTGGGCAGAAGGGTGAACGGATCCGTGAAATTCGTGACAAATTCAGAGGTCATC  
ATTAATTTCCAGACCCAGCACAAAAAGTGACATTGTCCAGCTCAGAGGACCTAAGAATGAGGTGGAAAAATGC  
ACAAAATACATGCAGAAGATGGTGGCAGATCTGGTGGAAAATAGCTATTCAATTTCTGTTCCGATCTTCAAACAG  
TTTCAAGAATATCATTGGGAAAGGAGGCGCAACATTAAAAAGATTCTGTAAGAAAGCAACACCAAAAATCGAC  
CTTCCAGCAGAGAATAGCAATTCAGAGACCATATCATCACAGGCAAGCGAGCCAACCTGCGAAGCTGCCCCGAGC  
AGGATTCTGTCTATTTCAGAAAGACCTGGCCAACATAGCCGAGGTAGAGGTCTCCATCCCTGCCAAGCTGCACAAC  
TCCCTCATTGGCACCAAGGGCCGTCTGATCCGCTCCATCATGGAGGAGTGCAGGGGGTCCACATTCACTTTCCC  
GTGGAAGGTTTCAGGAAGCGACACCGTTGTTATCAGGGGCCCTTCTCGGATGTGGAGAAGGCCAAGAAGCAGCTC  
CTGCATCTGGCGGAGGAGAAGCAACCAAGAGTTTCACTGTTGACATCCGCGCCAAGCCAGAATACCACAAATTC  
CTCATCGCAAGGGGGGCGGCAAAATTCGCAAGGTGCGCGACAGCACTGGAGCAGTGTATCTTCCCTGCGGCT  
GAGGACAAGGACCAGGACCTGATCACCATCATTGGAAGGAGGACGCCGTCCGAGAGGCACAGAAGGAGCTGGAG  
GCCTTGATCCAAAACCTGGATAATGTGGTGAAGACTCCATGCTGGTGGACCCCAAGCACCACCGCCACTTCGTC  
ATCCGCAGAGGCCAGGTCTTGCGGGAGATTGCTGAAGAGTATGGCGGGGTGATGGTCAGCTTCCCACGCTCTGGC  
ACACAGAGCGACAAAGTCAACCTCAAGGGCGCAAGGACTGTGTGGAGGCAGCCAAGAAACGCATTTCAGGAGATC  
ATTGAGGACCTGGAAGCTCAGGTGACATTAGAATGTGCTATACCCAGAAATTCCATCGATCTGTATGGGCCCC  
AAAGGTTCCAGAATCCAGCAGATTACTCGGGATTTAGTGTCAAATTAATTCAGACAGAGAGGAGAACGCA  
GTTACAGTACAGAGCCAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGAC  
CCCGGCTCTCAAGGAGGTGTGACATCATCATCTCTGGCCGAAAGAAAAGTGTGAGGCTGCCAAGGAAGCT  
CTGGAGGCATTGGTTCTGTACCATTTGAAGTAGAGGTGCCCTTTGACCTTCACCGTTACGTTATTGGGCAGAAA  
GGAAGTGGGATCCGCAAGATGATGGATGAGTTTGAAGTGAACATACATGTCCCGGCACCTGAGCTGCAGTCTGAC  
ATCATCGCCATCACGGGCCTCGCTGCAAAATTTGACCGGGCCAAGGCTGGACTGCTGGAGCGTGTGAAGGAGCTA  
CAGGCCGAGCAGGAGGACCGGGCTTTAAGGAGTTTTAAGCTGAGTGTCACTGTAGACCCCAATACCATCCCAAG  
ATTATCGGGAGAAAAGGGGCGAGTAATTACCCAAATCCGGTTGGAGCATGACGTGAACATCCAGTTTCTTGATAAG  
GACGATGGGAACCAGCCCCAGGACCAAAATTACCATCACAGGGTACGAAAAGAACACAGAAGCTGCCAGGGATGCT  
ATACTGAGAATTGTGGGTGAACCTTGAGCAGATGGTTTCTGAGGACGTCCCGCTGGACCACCGCTTCACGCCCCG  
ATCATTGGTGCCCGCGCAAGCCATTGCAAAATCATGGACGAATTCAGGTGGACATTGCTTCCCACAGAGC

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**FIGURE 1032B**

GGAGCCCCAGACCCCAACTGCGTCACTGTGACGGGGCTCCCAGAGAATGTGGAGGAAGCCATCGACCACATCCTC  
AATCTGGAGGAGGAATACCTAGCTGACGTGGTGGACAGTGAGGCGCTGCAGGTATACATGAAACCCCCAGCACAC  
GAAGAGGCCAAGGCACCTTCCAGAGGCTTTGTGGTGCGGGACGCACCCTGGACCGCCAGCAGCAGTGAGAAGGCT  
CCTGACATGAGCAGCTCTGAGGAATTTCCCAGCTTTGGGGCTCAGGTGGCTCCCAAGACCCTCCCTTGGGGCCCC  
AAACGATTAATGATCAAAAAGAACAGAACCCCTCTCCAGCCTGCTGACCCAAACCCAACCACACAATGGTTTGTCTC  
AATCTGACCCAGCGGCTGGACCCTCCGTAAATTGTTGACGCTCTTCCCCCTTCCCGAGGTCCCGCAGGGAGCCTA  
GCGCCTGGCTGTGTGTGCGGCCGCTCCTCCAGGCCTGGCCGTGCCCGCTCAGGACCTGCTCCACTGTTTAACACT  
AAACCAAGGTCATGAGCATTTCGTGCTAAGATAACAGACTCCAGCTCCTGGTCCACCCGGCATGTCAGTCAGCACT  
CTGGCCTTCATCACGAGAGCTCCGCAGCCGTGGCTAGGATTCCACTTCCTGTGTCATGACCTCAGGAAATAAACG  
TCCTTGACTTTATAAAAGCC

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**FIGURE 1033**

MSSVAVLTQESFAEHRSGLVPPQIKVATLNSEESDPPTYKD A F P P L P E K A A C L E S A Q E P A G A W G N K I R P I K A S V  
ITQVFHVPLEERKYKDMNQFGEQAKICLEIMQRTGAHLELSLAKDQGLSIMVSGKLD A V M K A R K D I V A R L Q T Q  
ASATVAIPKEHHRFVIGKNGEKLQDLELKTATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVE  
RLEVEKAFHPFIAGPYNRLVGEIMQETGTRINIPPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTIAV  
EVKKSQHKYVIGPKGNSLQEILERTGVSVEIPPSDSISETVILRGEPEKLGQALTEVYAKANSFTVSSVAAPSWL  
HRFIIIGKKGQNLAKITQOMPKVHIEFTEGEDKITLEGPTEDVNVAQEQIEGMVKDLINRMDYVEINIDHKFHRHL  
IGKSGANINRIKDQYKVSVRIPPDSEKSNLIRIEGDPQGVQQA K R E L L E L A S R M E N E R T K D L I I E Q R F H R T I I G Q  
KGERIREIRDKFPEVIINFPDPAQKSDIVQLRGPKNVEVEKCTKYMQKMOVADLVENSYSISVPIFKQFHKNIIGKG  
GANIKKIREESNTKIDLPAENSNSSETIIITGKRANCEAARSRLSIQKDLANIAEVEVSIPAKLHNSLIGTKGRL  
IRSIMEECGGVHIHFPVEGSGSDTVVIRGPSSDVEKAKKQLLHLAEKQTKSFTVDIRAKPEYHKFLIGKGGGKI  
RKVRDSTGARVIFPAAEDKDQDLITIIIGKEDAVREAQKELEALI Q N L D N V V E D S M L V D P K H H R H F V I R R G Q V L R E  
IAEYGGVMVSFPRSGTQSDKVT L K G A K D C V E A A K K R I Q E I I E D L E A Q V T L E C A I P Q K F H R S V M G P K G S R I Q Q I T  
RDFS V Q I K F P D R E E N A V H S T E P V V Q E N G D E A G E G R E A K D C D P G S P R R C D I I I I S G R K E K C E A A K E A L E A L V P V T I  
EVEVPFDLHRYVIGQKSGGIRKMMDEFEVNIHVPAPELQSDIIAITGLAANLDRAKAGLLERVKELQAEQEDRAL  
RSFKLSVTVDPKYHPKIIGRKGAVITQIRLEHDVNIQFPDKDDGNQPDQITITGYEKNTEAARDAILRIVGELE  
QMVSEDVPLDHRVHARIIGARGKAIRKIMDEFKVDIRFPQSGAPDPNCVTVTGLPENVEEAIDHILNLEEEYLAD  
VVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSEKAPDMSSSEEFPSFGAQVAPKTLPGWPKR

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**FIGURE 1034**

CCCAGCTCGGTGCTGCCGCCATCTTCTTGGAGGACAGGAGGAGAGGCGAAGGCTCCCCCTCCCCGTGATCGCTCC  
GCACTCCCGCCACCACCTGCCCTCCCGCGACCGCCTCTCTCCTCCTCAGTGGGCACTTGTCTCCTTCTAACAAAC  
GGCCTTCCCCCACTCCAGTTACCCACCGCAAGGCGAAGATTCTCATTACCTGTTCCACTCTTATAAGCATAAGA  
AAACCGAGCTCATAAGACGAAGCTTCACAAAAGATGTCTAAGCAACAGCCAACCTCAGTTTATAAATCCAGAAACA  
CCTGGCTATGTTGGATTGTGCAAACTCCCCAATCAAGTTCACCGAAAATCAGTGAAAAAAGGTTTTGAGTTCACA  
CTGATGGTGGTGGTGAATCAGGTCTAGGAAAATCGACTCTCATAAACAGCCTATTCTTAAGTATCTGTACCCA  
GAAAGAGTCATACCTGGAGCAGCAGAAAAAATTGAAAGAACTGTCCAGATTGAGGCTTCAACTGTTGAAATTGAA  
GAGCGAGGGGTCAAGCTACGCCTGACAGTGGTAGATACCCCTGGCTATGGTGACGCTATCAACTGCAGAGATTGT  
TTTAAGACAATTATCTCCTATATTGATGAGCAATTTGAGAGGTACCTGCATGACGAGAGCGGCTTGAACAGGCGG  
CACATCATTGATAATAGGGTGCATTGTTGCTTTTACTTTTATTTACCTTTTGGACATGGACTTAAGCCCTTAGAT  
GTGGCGTTTATGAAGGCAATACACAACAAGGTGAATATTGTGCCTGTCATTGCAAAAGCTGACACTCTCACCCTG  
AAGGAACGGGAGCGGCTGAAGAAAAGGATTCTGGATGAAATTGAAGAACATAACATCAAAATCTATCACTTACCT  
GATGCAGAATCAGATGAAGATGAAGATTTTAAAGAGCAGACTAGACTTCTCAAGGCTAGCATCCCATTTCTCTGTG  
GTTGGATCCAATCAGTTGATTGAAGCCAAAGGAAAGAAGGTGAGAGGCGCCTCTACCCCTGGGGTGTGTGGAA  
GTGGAGAACCAGAGCACAATGACTTCTGAAGCTGAGAACCATGCTCATCACCCACATGCAGGATCTCCAGGAG  
GTGACCCAGGACCTTCATTATGAAAACCTCCGTTCTGAGAGACTCAAGAGAGGCGGCAGGAAAGTGGAGAATGAG  
GACATGAATAAAGACCAGATCTTGCTGAAAAAGAAGCTGAGCTCCGCCGATGCAAGAGATGATTGCAAGGATG  
CAGGCGCAGATGCAGATGCAGATGCAGGGCGGGGATGGCGATGGCGGGCTCTCGGGCACCACGTGTAAAGGTGAT  
GTGCACATATCAAGAAGTCAGAGAAAACACTTTCCTGGATAAAAAAGAAAACATTCCAGATGATGATCCAGCTG  
TGTGTTTTCAATCCTTGGGAGGGTGCCATCCACATTTTAAACAGTACCTGTGCCTGAGAATTTAATTTTTTAAAGA  
CTTTGATGTGTTTTTGTATGAAGTACTTTTAAACGTATGTATTTTATTGCTGTGTACACTCTGTGTTTTGTGAGG  
TGAATGTCTTCTTTTCTTCTCCCTAACCATAATGTTAGAATTGATTTCCAAGAATCGGCATGTATACTTAAT  
ACTGAATTTCTTTGATTTAACTGACTTAACAACCTGACTAACCATTGATGAGCACTCCTGATTTTTATCTAGAACA  
TTCAGATTTACCATAATGTTTCTTAGTGGTAGAGGTGTGTGCCTAGTGATGTAGAAAGATACACTGACTTGGTGC  
AAGGCCATCTGCTTACCACATCACACCCTTGGAGATCTTTGCTTCTTTGCTTTTATGTTTGTACACAACACCTA  
AAACCAGTTTTGCTGCTATAATTTCTATACTGTTGATTCTGCTGCGATTTTATCTGTTAACCATAAAACATAAT  
AGAATTTCTAATGAGATATATCTTTATACTTAAACAGCTTTTTTATAGAGGTGAGTTTTTAAAGAAGTCTCTTAAT  
CTGATGCTAGGTTGTTTTTAAACCCTATGCAAAAGAACTCACCACAAGCCACCTTTTGTAGTGTCTCCACTAA  
TACTGGTTATCCTGTGCTACAGAGAAAATCAAAAGCAGTCATAAGCTCCAGTTTTCCGTATTGCAAAATAAGACTCT  
TACCTACAAAATGAGATTCCAGTGAACATAATTTGGTTTTTACTCAACCAAAATTAATAATTTTTTAAAGGAAAAT  
AGCAGTTGGTCTATTTCAGAATCAAACTTTTTATATTTTATACTGCACCTTTAGTGTATTTTCTGTCACTGTAGGT  
ATAGAAGATCTGCCTCCCTGTGGAATTTGGGGTCTGTTGGTGGGCTTGCCCTGAAGCCTGGCTTGGGTGAAA  
AGTGTTCGCCCTAAGGCCTTGGTGCCCTGAACCTCTGATGCCTACCGGGTCTCCTGATTTGAGTTTCTTTA  
AATACTCCCTTTTTGAGTAATTTTCTGATGGGAGGAAAGTAGCAGTCATCATCTTTTGTGTGCAGGCTGTCTCA  
TTTATTTTTAGCCATTGTCGTTTCATTCAATTTGTGTAATATAAACCCTGTGTATGTCAAAGTGAAAGACATTT  
CAAATCTGTAGCATAGGCTAGTGGGCAGGTCCGCACAGTCGAAGCCACACCTGGTCTGTTTTCTGTGCACTGTAG  
CCTTAGTGTACCTTTCTTCTTGTGCTCCTTATGGTACACTCCAGCGTTGCCTTTTTTATCATTTCTACTGAA  
GTTGGGAAATTCAACCCAGAAATTGACAGATGAAAGGAGACAATGGTTGTGTAGGGAGATGGAGAAAATGCTTA  
ATCTGAGGATGAGACAGGGTTTTTTCATTTTTGTGGGGGCTAGAAAAACATAAAATGAGGCAGTTAAATAATAA  
TAGTTAATGAAGGTGTGCTACAGAAAATAATCTGGTGTCTTGCTAACTTTGCCCTTCACTGTTGCTTAATTGTG  
AACAGCCAAAAGCTATATGTTATGGCTTATTGTGTGAAGGTAACCTAAGAAGTGGTGTTCATGACTTCAGAGTAC  
ATCCATGCGGAGTCCATTATTTGAGTTTGACATTTAATAACTTTGCTGGAAAATCTGTAAAAAAGAAAAACAAGT  
TTGCTAGTACTAAGCCCGCATATGTGAGTGAAAGTACTTCAGGCACGCTGCCTCCTGGTAACAGCTATGCAGG  
GAGGGAGGACCCACACTGCTACACTTCTGATCCCTTTGGTTTTACTACCCAAATCTAAATAGATACTTTTGATA  
ATAGATAACTGCTCTTTTACTAAGACATAGTCTCTACCTATAGAAATGTATTTTGAAAACACTTATTTTACACAG  
CAATTTGTATCCATTTAACTAACCTTTTATCAATAAAGCACTATTGTTTAGATATT



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**FIGURE 1035**

MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSFLTDLYPERVIPGAAEKI  
ERTVQIEASTVEIEERGVLRLTVVDTPGYGDAINCRDCFKTIIISYIDEQFERYLHDESGLNRRHIIDNRVHCCF  
YFISPFHGHLKPLDVAFMKAIHNKVNIVPVIKADTLTLKERERLKKRILDEIEEHNIKIYHLPDAESDEDEDFK  
EQTRLLKASIPFSVVGSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDLHYENFR  
SERLKRGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMOMQMQGGDGDGGALGHHV

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**FIGURE 1036**

CACCGAGCGCCCCTGGTGTCCCTCGCAGTGGACTGACGCCGAGGGGCGAGCTAGCCGGCTCCGCGCCTCTCCGC  
GGGATCCAGACGCCCTCCTGGGGCTGCTGGCGGAGGGTCTGAGGCGGCGCGGCCATGGCTCACCTCCGGGGATTG  
CCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTCACCAAGCTCGACCGCATTGGCAAGGGCTCGTTTGGGG  
AGGTCTACAAGGGCATCGATAACCACACAAAGGAGGTGGTGGCCATCAAGATCATCGACCTGGAGGAGGCCGAGG  
ATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTGCACAGCCCCCTACATCACCCGCTACTTTG  
GCTCTACCTAAAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGGCGGCGGCTCAGCACTGGACTTGCTTA  
AACCAGGTCCCCCTGGAGGAGACATACATTGCCACGATCCTGCGGGAGATTCTGAAGGGCCTGGATTATCTGCACT  
CCGAACGCAAGATCCACCGAGACATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGG  
ACTTTGGGGTAGCAGGGCAGCTCACAGACACGCAGATTAAGAGGAACACATTCGTGGGCACCCCTTCTGGATGG  
CACCTGAGGTTCATCAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGC  
TGGCCAAGGGGGAGCCTCCAACTCTGACCTCCACCCCATGCGCGTCTGTTCCTGATTCCCAAGAAGACCCCGATTCC  
CCACACTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCCTGCCTCAACAAAGACCCCGATTCC  
GGCCCACGGCCAAGGAGCTCCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCCTCACGGAGC  
TCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCTGACATTGATG  
GCGAGGCGGAGGACGGGGAGCAGGGCCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGC  
TTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCCCAGTGCC  
TGTCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAGCAGAGCGGCGGGAGCGTGGGTGCGC  
TGGAGGAGCTGGAGAAGCCTTCAGCCTGGCCGAGGAGTCTGCCCCGGCATCTCAGACAAGCTGATGGTGCACC  
TGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCACCTGACATCCACCCGCTGAAGCGCACTGCTGTTCA  
GATAGGGGACGGAAGGTTCGTTTGTGTTTGTCTGAGCTCCATAAGAACTGTGCTGACTTGGAAGGTGCCCTGTGC  
TATGTCTGCTGCCTGCAGGGACACGTCGGATCCCCTGGGCCTCACATGCCAGGTACCAGGTACCCTCTCCTTCCA  
CCCCTGCAGTGTGCTGTTGTGCACGTCAGGGACGCTGTTCTCTATGCCCACTGCCCTCCTCCCTCTCCTGGCCCA  
GCAGTATTGCTCACGGGGGCTCCAGCCGCCGGCGTGGCCCTCATGAGCTACGCTGGGTCTTCTGCAGACTCATG  
CAGCCCTATGGCCGCTCAGACCAAGGCGCAGAGCAACTATCAGGGCAGCTCTGCCTCCTCCTCCCATGAGGTGGG  
GAGAGGCAACAGGGCAGCCCCAGAGGAGTGTCTGGCCGCTGTCTCCCGGGGCCCCATGATGGCCATAGATTG  
CCTTGTTGGTGTGGATCAGGTACTGTGTCTGCTCATAAGTACTTGTGTCTATCCAGAATGTTTGTGTTTTTAAGAA  
AATTGAATTACTTGTTTCCTGAAA

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**FIGURE 1037**

GGCACGAGGCCAATCCCATGCCTGGGGGAGAGACAGCGGCTCAGGAGTGGGGGAGCACGGGCCTTCTACACCACA  
TGGGAAGGCTCTGGCATGAGGTTTTCTTTGGGAAGGTTGTTTGGGCCCTGAAGTTCCATCTCCGAGAGTGGTG  
TGCAGGGCAGGCCAGGGCCCATGCTGGCTGCAGTCTTTGTGGCTGCCTGCCTGGGCCAGCCTGTTTGGGAGCTGG  
GACTGTGGGCTCGCCTTTTTCGTACCTGGGCTCAGGTGCGGTGTGGCCACCGCCACCCCTCATCCCCTGCCTGGGAG  
GCTCTCCCAGGGGCTGATGGGGGGGTCTGTGAGGGAGAATCAGGGCTCGGGAAGCCACGCCTGGGAAGGCAGGA  
CACAGGACACAGCAGCTTTCTTTGGAAATCTCCCAGGTGAGGATTACATCCCAAATAAAATTCAGAAGCCAGG  
TGGCCTGTGCTCCCCATGGGTGACCTCTGGAGGCAGTGGACCAAGATGCAGCAAGGAGAGGATGCAGAACAGCTT  
CTTGCAGAAGCACCTGCTCCGGCATCCAGCGCTGCCTGGAGGCAGGAAGGAGAGGCAGGGCAGGACACGCTGGTC  
TGAGATGAGGGGGAGCCCCATGGGCCCCAGGCAGGCTAGAGGAGGCACAGGCCCTGCCACGGCCAACTCAGGTCA  
GCCAGCCTGAGGCTGTGGCCTCCAAAGGGTCTGGGCGCACCCCCAGGTGCGAGGTGTCTGAGGCCAGCCAACT  
GCAGAGCACTCGCGGCGTGGGTGGGCTGAGTGGAGGTGCCTGGGAGCTGCCTAAATTTCAGAAGCCTCCACTGCCA  
TGGAGACTGCCTGGCTGTGTCTCTCAGCCAGGTGCCGTGTTGGCCTTGGCTAGGACCCAGAGCCACACTGCAGC  
CTCCGCCGACTCCCTCCTTCCGGGCCTGCTCTAGTGAGGAGTGCCTAAGCCAGGACCCAGAAACTCAGAGTTGAT  
GGTGAGAGGAGGCCGCTGAGTCAGGACACCTGGCTTCTTGAAAAGTTCGCTCTGCCAGAAACCACCTAGGGACC  
ACGTTAGCTGCCTTCCTTGAGCTCCCCAGGAGTCCGTTTCCACATCTGTGAGGTGGAGGGCTGGTGTGGAGGTGC  
TCATGGGGTGCGGTGCTTGGGAGACAGCCAGGCCCAGGGTGGCTGCTGCTTCCTGCTAAGTGGGGGAGGTGAGAC  
AGATCTGGAAAGCCGTCTCCCTCAGATGGTTTCATTTAATGCTTTATACTGCCGAGTCTGGGGGCTTGTTTTGGT  
TTGGGGGCAGCCATCCTCCACCAGAAAGGGGGAGCTCCTTCCGCTGCGGCTCCAGATAGATGGGGATGCCGGGCT  
CCAGGCCGACCAGCACTTGGGATCTGATGGGACACGGCCAGTGCCTAGGGGTGCCAAGTCCAAGGCCTCCCACTG  
GGAGTCATCGCTGAGAAGATGCCAATGTTTCATCCACCGGCTGCACAGGCACAAACTCCCCACCCAGGACGGCT  
GTGATGAGGTGGCCCTCCCTGTCAACCCTGGTCCCTGGAGTCCCCAGCACCTGGGGCCCTGGTGGGGCTGATGTC  
ACAGGTGTTTACTGTGCTGCTGCACTGGTCCATATGCCAGCCTCACCCATGTGGGGACCACGGAAGGCACACTCCC  
TTACCCCCGGTGCCGGGCCGTGCGGTCCCCCAGACGGACAGCAGCTGTGGCGACCTGCGTTTCTCCCTGGGCCTG  
TGCTTCCTGTAGTTAGTCCGTCCCCTGGTTCCCCCTGTGGCTCAGAGGCCGCTCCCTGGCTTGTACATATGTGAT  
TGCTGTGGGCACACCCACAGACCCCATGTATAGCTGCCGTCCCGACGTACGACGCCTGTCCCGATGTCTTACAC  
CCGAGTGTTAGCCCTAGGCTCCTGTACTGTGCGTGCACTTGAGGCTCTGTCCAATTAAGAAATAAATGTGGCTCT  
TACTCAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1038**

MRWPSLSTLVPGVPSTWGPGGADVTGVYCAAALVLCQPHPCGDHGRHTPLPPVPGRAVPQTDSSCGDLRFSLGLC  
FL

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**FIGURE 1039**

ATGGAGGAACGGCGGGCTCCGAGCCGCGCCCCGGAGTCCGCGAAACTTCCGAGCGGGCGCCCCCTGAAGGACCTG  
ACCCGCTTCGTGGATTTCAACATCAAAGGGCGCGACGTGATCGTGTTCTCCACATCCAGAAGACGGGGGGCACC  
ACTTTCGGCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCTTGTTAGCTGCAAAGCGGGTCAGAAGAAGTGC  
ACCTGCCACCGGCCTGGCAAGAAGGAGACGTGGCTCTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCAC  
GCCGACTGGACGGAGCTCACCAACTGCGTGCCGGCCATCATGGAGAAGAAGGACTGTCCCCGCAACCACAGCCAC  
ACCAGTCCTGACCCAGAGCGACCCCGCGCTCCCTGCCCCTGCCGATGGTTTCCTGGCGTCTTCAGCGGTTGGCGC  
CGTGGCTTTGGGGAGGGATGA

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**FIGURE 1040**

ATGCTAACTAGTTACGCGACCCCGAGCGGTCGGCGTCCCCCAACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC  
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA  
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCCATTCGTGATGGGGATCGGGGATTGCAA  
TTATTCCCATGAACGAGGAATTCCCAGTAAGTGCGGGTCATAAGCTTGCGTTGATTAAAGTCCCTGCCCTTTGTA  
CACACGCCCCGTCGCTACTACCGATTGGATGGTTTAGTGAGGCCCTCGGATCGGCCCCGCCGGGGTCGGCCCCACG  
GCCCTGGCGGAGCGCTGA

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**FIGURE 1041**

GCGGCAACAGCGGGGCCGATGTGTAGTTGGTGACTGCCTCTCCAGATGCTGAGGTGCCTGTATCATTGGCACAGG  
CCAGTGCTGAACCGTAGGTGGAGTAGGCTGTGCCTTCGGAAGCAGTATCTATTCACAATGAAGTTGCAGTCTCCC  
GAATTCCAGTCACTTTTCACAGAAGGACTGAAGAGTCTGACAGAATTATTTGTCAAAGAGAATCACGAATTAAGA  
ATAGCAGGAGGAGCAGTGAGGGATTTATTAAATGGAGTAAAGCCTCAGGATATAGATTTTGCCACCACTGCTACC  
CCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCGGATGATAAACACAGAGGAGAAAAGCACGGAACA  
ATTACTGCCAGGCTTCATGAAGAAAATTTTGAGATTACTACACTACGGATTGATGTCACCACTGATGGAAGACAT  
GCTGAGGTAGAATTTACAACCTGACTGGCAGAAAGATGCGGAACGCAGAGATCTACTATAAAATCTATGTTTTTA  
GGTTTTGATGGCACTTTATTTGACTACTTTAATGGTTATGAAGATTTAAAAAATAAGAAAGTTAGATTTGTTGGA  
CATGCTAAACAGAGAATACAAGAGGATTATCTTAGAATTTTAAGATACTTCAGGTTTTATGGGAGAATTGTAGAC  
AAACCTGGTGACCATGATCCTGAGACTTTGGAAGCAATTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGA  
GAAAGGATTTGGGTGGAAGTGAAGAAAATTTCTGTTGGTAACCATGTAAATCATTGATTACCTTATCTATGAT  
CTTGATGTGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTAGAAGAATTTGACAAAGTCAGTAAAAATGTT  
GATGGTTTTTACCAAAGCCAGTGACTCTTTTGGCCTCATTATTCAAAGTACAAGATGATGTCACAAAATTGGAT  
TTGAGGTTGAAGATCGCAAAAGAGGAGAAAAACCTTGGCTTATTTATAGTTAAAAATAGGAAAGATTTAATTAAA  
GCAACAGATAGTTCAGACCCATTGAAACCTATCAAGACTTCATTATAGATTCTAGGGAACCTGATGCAACTACT  
CGTGTATGTGAAGTACTGAAGTACCAAGGAGAGCACTGTCTCCTAAAGGAAATGCAGCAGTGGTCCATTCCTCCA  
TTTCCTGTAAGTGGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAGAAATTGGGGCTCTATTACAACAG  
TTGCGAGAACAGTGGAAAAAAGTGTTTACCAAATGGAAAAAGATGAACCTCTGAGTTACATAAAGAAGACCTAA  
AACTGATGGCTACTAAAAAGCAGAGCATT





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**FIGURE 1043**

GCGGCTTCCGGCGGCGTGACCTGACCGCAAGAGGCCAATGGAGTGTGGGAGCTGAAAGGGTCTTCGCTGGCGGCC  
GGTAACTGGCGCGGTTGGGAACGGCCGAGTGTGGCTCTTCTGGTGTTCAGCTTGGGGAGAGAGGGGTGGCCTT  
CCTCTTGCAGTTGAGGCCGGCGGAGCCGACTTCAGGCGGATCTCGTGGCGGAGCCCATCTTGCTCCCTCTCC  
CAGGCCTTTACCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGAGACGACAGTACTGCTTTTAAAG  
AGACAGTGTTAGGGATCTTGAAGCACAGCCAACATGTTGTGACATTGAAGAAGCCACTAACCAACTCCTAGATGT  
GAACCTTCATGAGAACCAGAAGTCTGTACAAGTGACAGAAAGTGACCTCGGAAGTGAATCTGAGCTTCTAGTCAC  
TATTGGAGCCACTGTACCTACTGGCTTTGAGCAAACAGCTGCAGATGAAGTCAGAGAGAACTTGGGTCATCATG  
CAAAATCAGCAGAGACCGTGGCAAGATATATTTTGTCAATTCAGTGGAAAGTCTGGCACAGGTTCAATTGTCTGAG  
ATCAGTTGATAACTTATTTGTGGTGGTTTCAAGATTACCAGTTCAAACAAACAAAGGAAGAAGTTCT  
AAAGGATTTTGAAGACTTGGCTGGAAAACCTCCCATGGTCAAACCCCTTAAAGTGTGGAAAATTAATGCCAGTTT  
TAAAAAGAAAAAGCAAAGCGCAAAAAGATAAATCAGAATTCAAGTAAAGAGAAGATTAATAATGGACAAGAAGT  
CAAAATCGATCAGAGAAATGTTAAAAAAGAGTTCACTAGCCATGCTTTAGATTCTCATATCTTAGATTATTATGA  
AAATCCAGCCATCAAAGAGGATGTATCAACATTAATAGGTGATGATTTGGCATCTTGCAAAGATGAGACTGATGA  
AAGCTCAAAAGAAGAACTGAGCCTCAAGTGCTGAAGTTTAGAGTCACATGCAACAGGGCAGGAGAGAAACATTG  
CTTTACCTCAAATGAGGCTGCAAGAGATTTTGGGGGTGCTGTTCAAGATTATTTTAAGTGAAGGCCGACATGAC  
CAACTTTGATGTGGAGGTTCTTTTGAACATCCATGATAATGAAGTCATTGTGGGCATTGCATTGACTGAAGAGAG  
TCTCCACCGAAGAAATATAACACATTTTGGACCTACAACCTCTTAGATCAACTCTTGCCATAGGGATGCTCAGGCT  
CTGTGATCCTCTACCTTATGATATAATAGTCGATCCAATGTGTGGAAGTGGGCAATACCAATAGAGGGGGCCAC  
TGAATGGTCTGACTGTTTCCATATTGCTGGTGATAATAATCCACTGGCTGTGAATAGAGCAGCAAATAACATTGC  
ATCTTTATTGACCAAGAGCCAAATTAAGAAGGCAAACCTCCTGGGGCTTGCCCATAGATGCTGTTTCAAGTGGGA  
TATCTGCAATCTGCCGTTGAGAACTGGCTCTGTGGATATTATTGTAACAGATTGTCATTGGAAGGATGGG  
ATCCAAGAAGAGAACTGGAACCTTTATCCAGCTTGCCCTACGCGAGATGAGCCGTGTCTGCACACCTACCACAGG  
CCGAGCTGTACTACTTACTCAAGACACAAAATGCTTTACCAAGGCGTTATCTGGAATGCAACACGTATGGCGAAA  
GGTGGATACAGTCTGGGTGAACGTTGGIGGTCTTCGTGCTGCAGTTTACGTTCTGATACGTACACCTCAAGCTTT  
TGTTTCATCCTTCAGAACAAGACGGAGAAAAGAGGAACTCTTTGGCAATGCAAAGAATGAAGATGACTAATAGTACT  
TGTAATTTCCCACTGGAATGTTAGCATAAAAGAACTTGGAGAGGAAAAAGTATTAACAAAACCTGCAGTCTG  
CACTCTTTAAACCTGTTTAAGGCTCTTCATCCTGGTTAGCAAAAGGTGTGAATGTAATGTGATGGAATTTAAAG  
TTTTATGAGACCAGGCACAGTGGCTCACGACTGTAATTCAGCAGTTTAGGAAGCCGAAGTGTGCAGATCACCTG  
AGGTCCGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAGAAATACAAAATTAGCCAGGTGTGGT  
GGCGGGCGCCTGTAATCCCACTACTCAGGAGGCTGAGGCTAGAGAATCACTTGAACCCAGCAGGCGGAGGTGTC  
GGTGAGTCGAGATCACGCCATTGCACTCCAGCCTGTGCGACAAGAGCGAACTCTGTCTCAAAAAGATTTTATAA  
GAAAGCAGAGCTTTTCTTGAAGCTCTTTTGAAGTGGTAGCTTAATTAGTATTTTGTGAAAATACTTTAAAGAT  
GCCTAGTGAAAAGCCTACTAAAGTGCTGTGAGATTGGGGTTTGAACATTTTATTTTTCAGGCTTTATGGCCTATT  
TTCCATTGTGTCAAGTGCAAACTACCCTGGCCCAAAGGAAGGGCAGAGAACATAATTACATCTTAGGCCACATT  
TCATTCTTTGCAGCTTTGCTAATCCAGTTGCTCAAGTTCTTTACCTCAACCTGAAGGAATGAAGCATTATTACAT  
TTTGTGAATGGTGTTCAGCCTATAAGACGAAGTCTCACAAGACCTATAGGAAAGTTTACCATCTGCCTAAATATT  
AAAAATATCCATCTGTTATTCACATTAATACACAGAATGAAAATAGAGGTCTAGGAATTATCAAAGGTACTGCAA  
AATACTGTATAGAAGTTATTTGTAAATAGCACATACATTGATAGATGGGGTGTGGGACCAACAAACCAATTA  
AGAAATTGTTTTCTTTCAGTACACTAAGGTGTGTGTTTTCAAACC

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**FIGURE 1044**

MCDIEEATNQLLDVNLHENQKSVQVTESDLGSESELLVTIGATVPTGFEQTADEVREKLGSSCKISRDRGKIYF  
VISVESLAQVHCLRSVDNLFVVVQEFQDYQFKQTKEEVLKDFEDLAGKLPWSNPLKVWKINASFKKKKAKRKKIN  
QNSSKEKINNGQEVKIDQRNVKKEFTSHALDSHILDYYENPAIKEDVSTLIGDDLASCCKDETDESSKEETEPQVL  
KFRVTCNRAGEKHCFTSNEAARDFGGAVQDYFKWKADMTNFDVEVLLNIHDNEVIVGIALTEESLHRRNITHFGP  
TTLRSTLAYGMLRLCDPLPYDIIIVDPMCGTGAIPIEGATEWSDCFHIAGDNNPLAVNRAANNIASLLTKSQIKEG  
KPSWGLPIDAVQWDICNLPLRTGSVDIIIVTDLPFGKRMGSKKRNNLYPACLREMSRVCTPTTGRAVLLTQDTKC  
FTKALSGMQHVWRKVDTVWVNVGGLRAAVYVLIRTPQAFVHPSEQDGERGTLWQCKE

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**FIGURE 1045**

GCAGGCAGGTGCCATGGGCCCGCTTGAGGCACACTGAGGGGACGCGGGGCTGGGCCATGGCCGGCGCTCGGGCCG  
CCGCCCGCGCTGCCTCGGCGGGGTCTTCGGCCTCTTCAGGCAACCAGCCGCTCAGGAGCTGGGGCTTGGGGAGC  
TGCTGGAGGAGTTCTCCCGGACTCAGTACCGGGCCAAGGATGGCAGCGGGACCGGCGGCTCTAAGGTTGAGCGCA  
TTGAGAAGAGATGTCTGGAGCTGTTTGGCCGAGACTACTGTTTCAGCGTGATTCCAAACACGAATGGGGATATCT  
GTGGCCACTATCCCCGGCACATCGTGTTCTTGAGTATGAGAGTTCTGAGAAGGAGAAAGACACGTTTGAGAGTA  
CCGTACAGGTGAGCAAGTTGCAAGACCTCATCCACCGCAGCAAGATGGCCCGGTGCAGAGGACGGTTTGTCTGCC  
CAGTAATCCTGTTCAAGGGCAAGCACATTTGCAGGTGCGCCACACTGGCTGGATGGGGAGAGCTGTATGGACGCT  
CAGGCTACAACATATTTTTTCTCAGGGGGTGCAGATGATGCCTGGGCAGATGTGGAGGACGTCACGGAGGAGGACT  
GTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTGAGAGGCTATGACATCAAGCTGCTTCGATACCTGT  
CAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGA  
AGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATCCCGTATCCAGGCTGTGAATTTTCAAGG  
AATATAAAGATCGGGATTACATGGCAGAAAGGCTCATATTTAACTGGAAGCAGGACTACGTTGATGCCCCATTGA  
GCATCCCCGACTTCTGACTCACTCTCTGAACATTGACTGGAGCCAGTATCAGTGTTGGGATCTGGTGCAACAAA  
CACAAAACCTGAAAGCTGCTGCTTTTCTTAGTTAACAGTGATGATGACAGCGGGCTGCTGGTACACTGTATCT  
CAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCCTGCGCCTTTCTTGTGGGCTGATGGGCTCATCCACACGT  
CCCTGAAGCCCCTGAGATCCTCTACCTCACTGTGGCCTATGACTGGTTCCTCTTCGGGCACATGTTGGTAGATC  
GGCTCAGCAAAGGGGAGGAGATTTTCTTCTTCTGCTTCAATTTTTTGAAGCATATTACCTCCGAGGAGTTCTCTG  
CTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCGGGATGGAGGCTTACCCTGGAAGACATCTGCATGCTGA  
GACGAAAGGACCGTGGCAGCACCACCAGCCTTGGCAGCGACTTCTCCCTGGTCATGGAGAGTTCCCCAGGAGCCA  
CTGGGAGCTTACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCGCCAACTCAGGCAGCTTGGCTTGCAGCCC  
TGAGTGATCGAGAGACTCGGCTGCAGGAGGTGCGCTCAGCCTTCTTGGCTGCGTACAGCAGCACAGTGGGGCTTC  
GGGCAGTAGCCCCAGTCCTTCCGGTGCCATCGGGGGCCTGCTGGAGCAATTTGCCCGTGGTGTTGGACTCCGGA  
GCATCAGCAGCAATGCCTTGTGAAGAAGCCAGCCCATGACATTTTCTGCTCCTCTCTCAGCTGAGCCCTTAGCA  
GAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTGAGGGGAAATTTAGTCCCCCATCTCCATCATGA  
ACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTCCAACCCCCAGCCTCTTGAAGGTGACCACCA  
CCCCTTCTTGTCACTGTCTCCACCCACCCCATCTTTGCTGGGATTCCCATCAACTCTCAGAACTGTGTGGGGTT  
TCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTCAGTTCTTGTTTCTGGGGAGGAGGGATC  
ACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAAATCAAAGTCTTTTTGAAAAAAAAAAAAAA  
AAA

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**FIGURE 1046**

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNYFFSGGADDAWADVEDVTEEDCALRSGDTHLFDKVR  
GYDIKLLRYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFN  
WKQDYVDAPLSIPDFLTHSLNIDWSQYQCWDLVQQTONYLKLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRL  
SLWADGLIHTSLKPTIILYLTVAYDWFLFGHMLVDRLSKGEEIFFFCNFLKHITSEEFSAKLTQRRKSLPARDG  
GFTLEDICMLRRKDRGSTTSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQEVRSF  
LAAYSSTVGLRAVAPSPSGAIGGLLEQFARGVGLRSISSNAL

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**FIGURE 1047A**

CCGGACTCGAGGTGGCCGATGTGACAGCATGGGGGTGGACTTTGATGTGAAGACTTTCTGCCACAACCTGCGGGC  
GACTAAGCCACCATAACGAGTGCCCGGTGGAGACCTGCCGAAAGGTCTACAAGAGTTACAGTGGTATTGAGTACCA  
CCTGTACCACTATGACCACGACAACCCACCACCCCCACAACAACTCCACTCCGCAAGCACAAGAAAAAGGGGCG  
CCAGTCACGCCCAGCCAACAAGCAGTCACCCAGCCCCCTCAGAGGTCTCACAGTCACCAGGCCGTGAGGTGATGAG  
CTATGCACAGGCCCAGCGCATGGTGGAGGTGGACTTGCATGGCCGCGTCCACCGCATCAGCATCTTTGACAACCT  
GGATGTGGTGTGAGAGGATGAGGAAGCCCCGAGGAGGCCCTGAGAATGGCAGCAACAAGGAGAACACTGAGAC  
ACCAGCTGCTACTCCCAAGTCAGGCAAAACATAAGAACAAGGAGAAGCGCAAGGACTCCAACCATCACCACCACCA  
CAATGTTTCTGCGAGCACCCTCCCAAGCTGCCAGAGGTGGTCTATCGGGAGCTGGAACAGGACACCCCTGATGC  
CCCACCCCGGCCAACTTCCTATTACCGGTACATCGAGAAGTCTGCAGAGGAGCTGGACGAGGAAGTAGAGTATGA  
CATGGACGAGGAGGACTACATCTGGCTGGATATCATGAATGAGCGTCGGAAGACAGAGGGTGTAAAGTCCCATCCC  
GCAGGAGATCTTTGAGTACCTAATGGACCGACTGGAGAAGGAGTTCGTACTTTGAGAGTCATAATAAGGCGACCC  
TAATGCGCTAGTGGACGAGGATGCTGTTTGCTGTATCTGCAATGATGGTGGTGGTGGCAGAACAGCAATGTCATCCT  
CTTCTGTGACATGTGCAACCTGGCCGTGCACCAGGAGTGCTACGGTGTCCCTTATATCCCTGAGGGCCAGTGGCT  
GTGCCGCCGTTGCCGTGCAGTCACCCTCTCGTGTGTGGATTGTGCCCTGTGCCCAACAAGGGCGGTGCCCTTCAA  
GCAGACAGATGACGGGCGCTGGGCCCATGTGGTGTGTGCCCTTGTGGATCCCTGAGGTCTGCTTCGCCAACACGGT  
CTTCCTAGAGCCTATTGACAGCATTGAGCACATCCCACCAGCTCGCTGGAAGCTCACCTGCTACATTTGCAAACA  
ACGGGGCTCAGGGGCCTGCATCCAGTGCCACAAGGCCAACTGTTACACAGCTTTCCATGTGACATGCGCCAGCA  
GGCTGGCCTTTACATGAAGATGGAGCCTGTGCGGGAGACAGGCGCCAACGGCACCTCTTTCAGTGTCCGCAAGAC  
AGCCTACTGCGACATCCACACGCCTCCAGGTTACGACGCGCGACTGCCCTGCCCTGTCCACAGCGAGGGTGAGGA  
GGATGAAGATGAGGAGGAGGATGAGGGTAAGGGCTGGAGCTCAGAGAAAGTCAAGAAGGCCAAGGCCAAGTCCCG  
GATCAAAATGAAGAAGGCACGGAAGATCCTGGCAGAGAAGCGGGCAGCAGCACCTGTGGTGTGAGTGCCCTGCAT  
CCCACCACACAGGCTTAGTAAATCACCAACCGCCTGACCATCCAAAGGAAGAGCCAGTTTCATGCAGAGGCTGCA  
CAGTACTGGACACTGAAGCGGCAGTCACGGAATGGGGTCCCATTTGCTACGTGCGCTGCAGACACACCTGCAATC  
TCAGAGGAACTGTGACCAAGTTGGGAGAGATTCTGAGGATAAGAACTGGGCCCTTAAAGAACAGCTCAAGTCTTG  
GCAGCGGCTCCGGCATGACTTGGAGCGAGCTCGGCTGCTCGTGGAATTGATCCGCAAGCGGGAAAAACTCAAAAG  
GGAGACGATCAAGGTTACGAGATTGCCATGGAGATGCAGCTGACTCCTTTCTCATCTCTCTTCGCAAAACCTT  
GGAGCAGCTCCAAGAGAAGGACACAGGCAACATCTTCAGCGAGCCGGTCCCTCTGTCTGAGGTACCTGACTACCT  
AGACCACATCAAAAAGCCCATGGACTTTTTACCATGAAGCAGAACTTGGAGGCTTACCGCTACCTGAATTTTGA  
TGATTTTGAGGAGGACTTCAACCTCATCGTCAGCAACTGCCTCAAGTATAACGCCAAGGACACCATCTTCTACCG  
GGCAGCAGTGCGGCTTCGTGAGCAGGGTGGTGTGTGCTCCGCCAGGCCCCGGCGCCAGGCAGAAAAAATGGGCAT  
TGACTTTGAGACGGGCATGCATATCCCCACAGCCTGGCTGGAGATGAGGCCACACACCACACTGAAGATGCAGC  
CGAGGAAGAGCGGCTGGTCTTGCTGGAGAACCAGAAGCACCTGCCAGTGGGAAGAACAGCTAAAGCTGCTTCTGGA  
GCGGCTGGACGAAGTGAATGCCAGCAAGCAGAGTGTGGGCGGCTCACGGCGTGCAAAGATGATCAAGAAAGAGAT  
GACGGCACTGCGGCGGAAGCTTGCCCATCAGCGAGAGACGGGACGTGATGGCCCTGAGCGGCATGGCCCCCTCGAG  
CCGGGGTAGTCTGACACCCACCCGGCAGCCTGTGACAAGGATGGGCAGACAGATAGTGGGCAGAGGAGAGCAG  
CAGCCAGGAGACAAGCAAAGGCCTGGGTCCCAACATGTCTCAACCCCCGCACATGAGGTGGGCAGGAGAACTC  
AGTTCTGTTCTCCAAAAAGAACCCGAAGACAGCTGGACCGCCCAAGAGGCCGGGCGGCCCCCAAAAACCGGGA  
GAGCCAGATGACCCCAAGCCACGGAGGCAGTCTGTGGGGCCCCCAGCTCCCATCATGAGTTCCCTGCGTCA  
GCGCAAGCGGGGTAGGAGCCCCCGGCCAGTTTCGAGCTCAGACAGCGACAGTGATAAGTCCACAGAAGACCCCC  
AATGGACTTACCAGCCAATGGCTTCAGCGGTGGAAACCAACCAGTGAAGAAGAGTTTCTTGGTATACCGTAATGA  
CTGCAGCCTTCCCCGAGCAGCTCAGACTCTGAGTCCAGCAGCAGTAGCAGTAGCAGCGCTGCTTCAGACCGGAC  
CAGCACAACGCCCTCAAAACAAGGCCGGGGCAAACCTCCTTCTCTCGGGGCACTTTCCAGAGGACAGCAGTGA  
GGATACCTCAGGCACTGAGAATGAGGCCTACTCCGTGGGCACTGGCCGCGGCGTGGGCCACAGCATGGTAAGGAA  
GAGTCTGGGCGGGGAGCTGGCTGGCTGTGAGAGGATGAGGACTCCCCGCTGGATGCTCTGGACCTCGTGTGGGC  
CAAATGCCGAGGCTATCCATCATACCCAGCTCTGATCATTGATCCAAAGATGCCCGGAGAAGGTATGTTCCACCA  
TGGGGTTCCCATCCCTGTGCCCCCACTGGAGGTGCTGAACTTGGGGAGCAGATGACCCAGGAAGCCCCGAGAGCA  
TCTCTACCTCGTCTCTTCTTTGACAACAAACGAACCTGGCAGTGGCTGCCAGGACCAAGCTGGTTCTCTGGG  
TGTGAACCAGGACCTAGACAAGGAGAAGATGCTGGAGGGCCGCAAGTCCAACATCCGCAAGTCAGTACAGATCGC

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**FIGURE 1047B**

CTACCACAGGGCTCTGCAGCACCGCAGCAAGGTGCAAGGCGAGCAGAGCAGTGAGACCAGCGATAGTGATTTGATA  
CTGCTCAACACAGCCCAACCTATAGTGCCCTGTGACTTCTCTCCTCCCCTTTGCTCACTGTCCTGGAGTGGCACC  
GGCCTCTGCACTGACTCATTCTGGTCTTGGGGCCAGTCTCAGGGGAAGCTGGGTGGGGGAGGTCCCTCCTGCCC  
TAAGTGCAGCTGGACTGTACAGAACTCCAAGGGCCAATGGCAGTTCAGCGCAAGGAGAGGGAGGGCCACAGG  
TCAGAAAAAGCTCCAGAGACCTCACAGCATTGTAGGGCGGGGTGGTGGGCCAAAGTTAGGACACTGCGTAAAACA  
GGCCATCCCACCACCTCTACCTGCTCATGCCAGGAGAATCCATAACTGCCTAGAGGCCTGGGGCCCTACCGGTC  
GTGAGGTGAGTGGGCATCTGTCCAGCCTGGAAGAGGGGCACTAGGTGACTCCCTCCCCTGCTGTTGTAAATACTG  
TAATTATCGGAGAATTTAAATTATTCTCATTGTAACTGCGTTTCCGGGTCGCGCCAGAGTCATTGGTACTAAA  
AAAAAAAAAAAAAAAAAGACTGGGGGCTGTCCCATTTCCCTTCTCTTTCCCATAGATTCCCCCACCTTTCAAACCTG  
GTTTGTATTTATTTCAAAGGAAGAAAATATATTGATTCTTAGAAAATAAA

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**FIGURE 1048**

MGVDFDVKTFCNHLRATKPPYECPVETCRKVYKSYSGIEYHLYHYDHDNPPPPQQTFLRKHKKKGRQSRPANKQS  
PSPSEVSQSPGREVMSYAQAQRMVEVDLHGRVHRISIFDNLDVVSEDEEAPEEAPENGSNKENTETPAATPKSGK  
HKNKEKRKDSNHHHHHNVSASTTPKLPEVVYRELEQDTPDAPPRPTSYRYIEKSAEELDEEVEYDMDEEDYIWL  
DIMNERRKTEGVSPIPQEIFEYLMRLEKESYFESHNGDPNALVDEDAVCCICNDGECQNSNVILFCDMCNLAV  
HQECYGVPIPIEGQWLCRRCLQSPSRAVDCALCPNKGGAFAKQTDDGRWAHVVCALWIPEVCFANTVFLEPIDSIE  
HIPPARWKLTICYICKQRGSGACIQCHKANCYTAFHVTCQQAGLYMKMEPVRETGANGTSFSVRKTAYCDIHTPP  
GSARRLPALSHSEGEDEDEEEDGKGWSSEKVKKAKAKSRIKMKKARKILAEKRAAAPVVSVP CIPPHRLSKIT  
NRLTIQRKSQFMQRLHSYWTLLKRSRNGVPLLRLQTHLQSQRNCDQVGRDSEDKNWALKEQLKSWQRLRHDLER  
ARLLVELIRKREKLKRETIKVQQIAMEMQLTPFLILLRKTLEQLQEKDTGNIFSEPVPLSEVPDYLDHIKKPMDF  
FTMKQNLEAYRYLNFDDFEEDFNLI VSNCLKYNAKDTIFYRAAVRLREQGGAVLRQARRQAEKMGIDFETGMHIP  
HSLAGDEATHHTEDAAEEERLVLLNQKHL PVEEQLKLLERLDEVNASKQSVGRSRRAKMIKKEMTALRRKLAH  
QRETGRDGPERHGPSSRGS LTPHPAACDKDGTDSAAEESSQETSKGLGPNMSSTPAHEVGRRTSVLF SKKNPK  
TAGPPKRPGRPKNRESQMTPSHGGSPVGPPQLPIMSSLRQRKGRSPRPSSSSSDSDSDKSTEDPPMDLPANGFS  
GGNQPVKKSFLVYRNDCSLPRSSSDSESSSSSSSSAASDRTSTTPSKQGRGKPSFSRGTFPEDSS EDTSGTENE A  
YSVGTGRGVGHSMVRKSLGRGAGWLSEDEDSPLDALDLVWAKCRGYPSYPALI IDPKMPREGMFHHGVPIPVPL  
EVLKLGEQMTQEAREHLYLVLFDDNKRTWQWLPRTKLVPLGVNQDL DKEKMLEGRKSNIRKSVQIAYHRAHQHRS  
KVQGEQSSETSDSD

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**FIGURE 1049**

GTACCCCATCCTTTCTCTCGCCCCCTCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGGCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACCTCC  
CGCCCCCTCCCGCGGGCCCTGGGGCCGTAGGAGGCCGCAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGAGTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCTGCAGCTGGAGCTGGAGACCCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGTCCCCCCTAAACATGGGAAGCCCAAGAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGGCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCCATATCGACGTGC  
CACGGATCCCCAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCCTCGCAATCAGAAACAAGCCCTTCAGTGTGCCGATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTAGTGCCACACAACCGCACCAAGAAGCACGACCTGC  
TGAGGCTGGCAAAGGAGGAGGTGAGCCGGCAGGAGCTGAGGCAGCGGTTGCGCATGGCTGACAACGAGGTCATGG  
ACGCCCTTTCGCAAGATCATGGCTGCCCCGCAGAAGAAGCGGACTCCACCAAGAAAGAAAAGGACCAGGCCTGGA  
AGACTCTGAAGGAGCGTGAGAGCATCCTGAAGCTGCTGGATGGGTAGCCCTCACCCCTGCCTCAGGCTGATTATC  
TGGCCTAGGGGAGGGGAAGGGAGGCCCACTTCCCTCTTTGGGCACAGGAAACATTGGCCTGTGGCTGTCCCTCAA  
ATGGCGGCAGTCTCTAGAGGGCCGTGGCCCTTCCCTGAGGTCTTTTGGCCTAGCTCTGTACAACAGGACACAG  
GAAGCCCTGCTGGGCTAGCCTGAGGCCTAGTCTCTGCTTGGTCCCCGAGATGGGGTTGGAGGGGACTTCGTTTCT  
GGGTCTTCTCTTCCCTCTTTACCATCCCCCACTCCCTAATCCCCTACCCCTGTCTCCCCTTCAAGGACTTCTC  
CCTTGTGGTTTTGTAAAGTGCAAACTTAAGAATAAAGTGACTGCTGTGGTTTTTCAAAAAAAAAAAAAA



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**FIGURE 1050**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGARAAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLQLALVEENIISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGILLESEDRPAEDSEDEVLAELRKRQAEKALSahnRTKKHDLRLAKEEV  
SRQELRQRVRMADNEVMDAFRKIMAAARQKKRTPTKKEKDQAWKTLKERESILKLLDG

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**FIGURE 1051**

GTACCCCATCCTTTCTCTCGCCCTCCTACCCGCGAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACACCCGCACCCAC  
CTCTAGCGGCTTTTGCTCGAGGCCACCTTCTTCCCACCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCGGGGCGGTTGCTCACATCGACCGGAACTCCC  
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTGTTGGGCGACCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCATATCCTGGGCCATGAGTGAAGACTGCCCCCTTGCACTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCAGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCTGCAGCTGGAGCTGGAGACCCTGCTGTCTTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCAGATCCTCACCAGCTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGTCCCCCACAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTATGACCCATATCGACGTGC  
CACGGATCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCACCCCTGG  
GGAAGCACTACTCCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCTCGCAATCAGAACAAGCCCTTCAGTGTGCCGCTACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCACAACCGCACCAAGAAGCAGACCTGC  
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTCAG  
GGGTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGGTATGTCCCAAACAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTTGTTTTGTTTTGTTTTTTTTTTGAGAGGGAGTCTCGCACTGTACCCAGGCTGGAGTGCAGTGGCATG  
ATCTCGGCTCACTGCAAGCTCCGCCTCCAGGTTTCATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGATACT  
ACAGGCACCCACCACGCCCAGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGTTTACCCTGTTAGCCAGG  
ATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCCGGGATTACAGGCGTGAGCCAC  
TGCGCCTGGCCTAGTTTGGTTTTTTAATTATGGTAAAGGCATAATATAAAATGTATCTCCATGGGAGGCTGAGGC  
AGGAGAATCAGTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGACTGCACCATTGCATTCCAGCCTGGGCAA  
CAAGAGTGAACTGCATCTCAAAAAAAAAAAGAAAAAAAAATTTACGCTTCTTAACCATTTTTTAAGTGTACAGTTT  
AGTAGTGTACCCATATTCACATTGTTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTTCTTTTTATCCCCA  
AAGTTTGTATTATAAAATTTGATACACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCA  
CCTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1052**

MSELKDCPLQFHD FKSV D H L K V C P R Y T A V L A R S E D D G I G I E E L D T L Q L E L E T L L S S A S R R L R V L E A E T Q I L T D W Q  
D K K G D R R F L K L G R D H E L G A P P K H G K P K K Q K L E G K A G H G P G P G P G R P K S K N L Q P K I Q E Y E F T D D P I D V P R I P K N D A  
P N R F W A S V E P Y C A D I T S E E V R T L E E L L K P P E D E A E H Y K I P P L G K H Y S Q R W A Q E D L L E E Q K D G A R A A A V A D K K K G L  
M G P L T E L D T K D V D A L L K K S E A Q H E Q P E D G C P F G A L T Q R L L Q A L V E E N I I S P M E D S P I P D M S G K E S G A D G A S T S P R  
N Q N K P F S V P H T K S L E S R I K E E L I A Q G L L E S E D R P A E D S E D E V L A E L R K R Q A E L K A L S A H N R T K K H D L L R

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**FIGURE 1053**

GTACCCCATCCTTTCTCTCGCCCTCCTACCCGAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCGCCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACCTCC  
CGCCCCCTCCCGCGGGCCCTGGGGCCGTAGGAGGCCGAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGCGGGACATTTGGGCGACCCCGGGCGGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGAGTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCTGCAGCTGGAGCTGGAGACCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCAGCTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGTCCCCCACAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTATGACCCATATCGACGTGC  
CACGGATCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCACCCCTGG  
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCTCGCAATCAGAACAAAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCACAACCGCACCAAGAAGCACGACCTGC  
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTCAG  
GGGTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGGTATGTCCCAAACAAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTTGTTTTTGTGTTTTTTTTTGTAGAGGGAGTCTCGCCTGGGCAACAAGAGTGAACTGCATCTCAAA  
AAAAAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTAAAGTGACAGTTTAGTAGTGTTACCCATATTCACAT  
TGTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTCTTTTATCCCCAAAGTTTTGTTATTAATAAATTGA  
TACACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCACCTAAAAA

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**FIGURE 1054**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLQLALVEENTISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFSSVPHTKSLESRIKEELIAQGGLLESEDRPAEDSEDEVLAELRKRQAEKALSAHNRTKKHDLR

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**FIGURE 1055**

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC  
TGCCTGGAGAACTTCTCCTCCCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG  
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC  
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTCATGCGCTTCATGATG  
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTTCTGATCACCAAC  
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG  
ATCAGTGAGATGAAGCTGTCAGTCAATGCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTT**TAAACC**  
ATCTGGCTGGATCTCGTGGCCTTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA  
GCAGCGCGGCGGCGGCAGGGAGTTGGGTGGGGTGGGCATTTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG  
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTTCAGTCCCCT  
GGGCCGGGACAGATTTTTTTTAAAGTCTTGAAACTTAAACTCTGTGCTTGTAACAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1056**

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPV TISRNEKEKVLIEGSINSVRVSIA  
VKQADEIEKILCHKFMRFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEDKEISEMK  
LSVNARARIVAEFLKNF

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**FIGURE 1057**

GCCTGCCTCTTCCAGAGAGACTCCCCATTGCTGTCTCTTGTGTGTGTCATGCACAAGGAAGGCTTGGTTGTGTG  
CCAGGATAAGGGGCACAAGGGCCTCGGGTGTGGCCAGAGACCCCATGCTTAAGCTTTTATGGTATAGGTCAGGCT  
GCAGGGGTTTGAAGGGCTCAGTTGTATATCAGAATCTTCAGAGCACTGCGATGTTTCAGGGGTGAGTCAGGCTCTGT  
AGATGTGCACGGGGTCTTCTGAAGGGTCAGTTTCTGTAATCACTTTTCAGGTGTGTCAGGGCCTTGTGCAGTAACA  
GTGCACACAGAAGTTAGTGTCTTCTGTGGGCTAAGGGTGTAGCTCTGTATCAGGATTCTGGGAGTGGGTCTGGAT  
TTCTGGTGTGTGGACTTAAGAAGCTGTGTGAGACTTGGGGGAGGGGCGTTCATGTATAACTGGGTTTACATAGGC  
CAAGACTCCCAGGTGCATTTTAGGCAGAGCCTCAGGTGTGTTAGAGGTCCCAGGGGCAGAGAGGCTATAGGTGCT  
GTCAGAGGCCTTGGGGACATTTAGGGCAGAGCCTCAGGTGACAGGTCTTGGGACAGTGGGAGCCAAAGGGCAAGTG  
CTAGAGTTGCAGTGAATTTAGAGCAAAGCCTCAGCTAAGTGACACATCCAGGGCAGTAGGGGATCTATCTAGGT  
TCGTGCTGGGCCTCAGGTAAAGTGACAGGCCTTAGGACAATGGGGCTGTGGCATGCGTCAGGTTACCTGCCTTGA  
TATGGGATCGTGACAGGCCCCCTCCCTATGTGACAGGAGACAAGCAGCCCAAGAAACAGGAGAAAAACCCAGTGTTG  
GTGTCCCCAGAGTTTGTGGATGAAGCTCTGTGTGCGTGCGAGGAGTACCTTAGCAACTTGGCCCCACATGGACATC  
GACAAGGACCTGGAGGCCCCGCTGTACCTCACCCTCGAGGGCTGGTCCCTCTTCCCTCCAGCGCTACTACCAAGTG  
GTCCACGAAGGGGCAGAACTCAGGCACCTCGACACTCAGGTCCAGCGCTGTGAGGACATCCTGCAGCAGCTGCAG  
GCCGTGGTACCCAGATAGACATGGAAGGGGATCGCAACATCTGGATCGTGAAGCCAGGAGCCAAGTCCCGCGGA  
CGAGGCATCATGTGCATGGACCACCTGGAGGAGATGCTGAAGCTGGTGAACGGCAACCCCGTGGTGATGAAGGAC  
GGCAAGTGGGTGGTGCAGAAGTATATTGAGCGGCCCCCTCCTCATCTTTGGCACCAAGTTTGACCTCAGACAGTGG  
TTCTCTGGTAACTGACTGGAACCCACTTACCGTGTGGTCTTACCGCGACAGCTATATCCGCTTTTCCACGCAGCCC  
TTCTCCCTGAAGAACCTGGACAACCTCAGTGCACCTGTGCAACAACCTCCATCCAGAAGCACCTGGAGAACTCATGC  
CATCGGCATCCACTGCTTCCGCCAGACAACATGTGGTCTAGCCAGAGGTTCCAGGCCCACCTGCAGGAGATGGGT  
GCCCCAAATGCTTGGTCCACCATCATCGTGCCTGGCATGAAGGATGCTGTGATCCACGCACTTCAGACCTCCCAG  
GACACCGTGCAGTGTGGAAGGCCAGCTTTGAGCTCTATGGCGCTGACTTCGTGTTCCGGGAGGACTTCCAGCCC  
TGGCTGATTGAGATCAACGCCAGCCCCACGATGGCACCCTCCACAGCAGTCACTGCCCCGCTCTGTGCTGGCGTG  
CAAGCTGACACCCTGCGCGTGGTCATTGACCGGATGCTGGACCGCAACTGTGACACAGGAGCCTTTGAGCTCATC  
TATAAGCAGCCCGTACCACTTCCCCAGCCTCCACACCAAGGCCAGCTGCCTTCTCCCCATGTACTCCGACACC  
AGGGCCAGGTCTCAGACGACAGCACAGCAAGCTGGTGGGCACCTAAGGCCCTGTGACCACAGGCAAGGCCTTGA

GGACTCTACCCACGGCTAAGGTCTTCATTTCCCTCCCACCGAACCTTGATTTCAAGGTGGCACCCAGCATCCTGA  
AGCCAAGAAAGGTGGGCCTCGACCTGTGACTCACACCCAGTGGACAGTGTGAGCACGGGGTCAGGGCTGGAGGG  
CACAGGCAGAGGGCAGCTCCCAGGCTGGCTGGCACCCCAAGGGAAGAGCTGGTCTCCCTCAGAAGCCCCCTTCCTC  
CACAGACTTCTGATCATCTCCCTCTTCTCCCCCTCCTTTACACCGAGGCTCCTGCTCTCCTGTGCTCCGAGGCC  
CCCAGCTGGAAGTGCCTTGTGCTCTGCCCTTTGAAGTCGGAACAATTCCTAGCACCTGTGGAAGGTCAAGGC  
CAAAGGCCAAATTCAAGGCCAGACTGTGACAAACCCAGGGCTGAGGCCTGCCCCATGAAGAGGCTGAGCCCCCTGA  
AACCCCTGCCCTTGTGTTGATATTCCAGAGGCGCAGGGGCTGGGGGATATGAAGCTAGGGAAGCCCCCTGCTTC  
GATTCCCCACTGCCCTTGTCTGGATCCAACACCAATAAAAAAGAAACAAGTGAAGTAAAAAAAAAAAAAAAAAAA  
AAA



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**FIGURE 1058**

MDIDKDLEAPLYLTPEGWSLFLQRYYQVVHEGAELRHLDLTQVQRCE  
DILQQLQAVVPQIDMEGDRNIWIVKPGAK  
SRGRGIMCMDHLEEMKLKLVNGNPFVVMKDGKWVQKYIERPL  
LIFGTFDLRQWFLVTDWNPLTVWFYRDSYIRFS  
TQPFSLKNLDNSVHLCNNSIQKHLENSCHRHPLLPD  
NMWSSQRFQAHLQEMGAPNAWSTIIVPGMKDAVIHALQ  
TSQDTVQCRKASFELYGADFVFGEDFQFWLIEINASPT  
MAPSTAVTARLCAGVQADTLRVVIDRMLDRNC  
DTGAF  
ELIYKQPVTTS  
PASTPRP  
SCLLP  
MYS  
DTRAR  
SSDD  
STAS  
WWAL  
RPC  
RQARP

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**FIGURE 1059**

GTCTTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCTGGGTGTC  
CGCCAGTGCCCGAGGACGCAGGCTTTGGCACCGAAGCCCGGCATCAGAGGCAACCCCGCGGCTCCTGCCAACGG  
TCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGCTGCTGCCAAAAACCTCAGTCGGGAGGAGCTGGTTGATGCG  
CTGCGGGCAGCCGTGGTGGACCGGAAAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGC  
CAGTCCCTAGGGCTCAGGGAGCAGGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTA  
CTCTCCAGCTGTCCCCAGACAGCTAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCCAAAGGCCCA  
GCCACCTACTGTGCTGTCACTGATGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAA  
CACATTGATGGGGTCAATCTCACAGTTCCAGTGAAGGCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAG  
ACTCTCAGTCACTTTCGTGTGGTAGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTT  
TCCAGTCAACTACAGGTGCACATGGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTG  
GGCACTGTCTTGGGCCAGCGATTTCTGCTGCCAGCTGAGAACAAAGCCCCAAAGACAGGTCTCGGATGAAGCC  
CTCCTCAGACGCCTCCACCTGACCCCTCCCAGGCTGCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTT  
CTCCCAGGACACCAGGGCCAGGGACACCCCTGTTGAGCTCCTGGCACCACCTGCCCCCTTATTTCTCCAGGACCCTA  
CAGTGCCTGGGGCTCCGCTTACAATAGTCTCCTCCCTCTGTTCTGACCCCTCACACACACTGGAAAGTGAGGGTG  
GGGGCTCTGCAGTCAGACAAACCTAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGT  
AACTTTACCTCTCTGGACTTGTGATAATAAAAGTTCCTACCTC

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**FIGURE 1060**

ATAGGGTCAGTGGGCCGCTTGGCGGTGTCGTTGCGGTACCAGGTCCGCGTGAGGGGTTCGGGGGTTCTGGGCAGG  
CACAATGGCGTCTCGAGCAGGCCCGCGAGCGGCCGGCACCAGCGGCAGCGACTTTCAGCACCGGGAGCGCGTCGC  
CATGCACTACCAGATGAGTGTGACTCTCAAGTATGAAATCAAGAAGCTGATCTACGTACATCTGGTCATATGGCT  
GCTGCTGGTTGCTAAGATGAGCGTGGGACACCTGAGGCTCTTGTCACATGATCAGGTGGCCATGCCCTATCAGTG  
GGAATACCCGTATTTGCTGAGCATTTTGGCCCTCTCTCTTGGGCCTTCTCTCCTTTCCCCGCAACAACATTAGCTA  
CCTGGTGCTCTCCATGATCAGCATGGGACTCTTTTCCATCGCTCCACTCATTTATGGCAGCATGGAGATGTTCCC  
TGCTGCACAGCAGCTCTACCGCCATGGCAAGGCCTACCGTTTCCTCTTTGGTTTTTCTGCCGTTTCCATCATGTA  
CCTGGTGTTGGTGTTGGCAGTGCAAGTGCATGCCTGGCAGTTGTACTACAGCAAGAAGCTCCTAGACTCTTGGTT  
CACCAGCACACAGGAGAAGAAGCATAAATGAAGCCTCTTTGGGGTGAAAGCCTGGACATCCCATCGAATGAAAGGA  
CACTAGTACAGCGGTTCCAAAATCCCTTCTGGTGATTTTAGCAGCTGTGATGTTGGTACCTGGTGCAGACCAGGC  
CAAAGTTCTGGAAAGCTCCTTTTGCCATCTGCTGAGGTGGCAAACTATAATTTATTCCTGGTTGGCTAGAACTG  
GGTGACCAACAGCTATGAAACAAATTTAGCTGTTTGAAGTTGAACTTTGAGGTTTTTCTTTAAGAATGAGCTTC  
GTCTTGCCTCTACTCGGTCATTCTCCCCATTTCCATCCATTACCCCTTAGCCATTGAGACTAAAGGAAATAGGG  
AATAAATCAAATTACTTCATCTCTAGGTCACGGGTCAGGAAACATTTGGGCAGCTGCTCCCTTGGCAGGCTGTGG  
TCTCCTCTGCAAAGCATTTTAAATTAAAAACCTCAATAAAGA

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**FIGURE 1061**

MASRAGPRAAGTDGSDFQHRERVAMHYQMSVTLKYEIKKLIYVHLVIWLLLVAKMSVGHLRLLSHDQVAMPYQWE  
YPYLLSILPSLLGLLSFPRNNISYLVLSMISMGLFSIAPLIYGSMEMFPAAQQLYRHGKAYRFLFGFSAVSIMYL  
VLVLAVQVHAWQLYYSKKLLDSWFTSTQEKHKH

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**FIGURE 1062**

GGAAGTTGAGCGGCGGCAAGAAATAATGGCGGCAGCTACGGGGGATCCTGGACTCTCTAAACTGCAGTTTGCCCC  
TTTTAGTAGTGCCTTGGATGTTGGGTTTTGGCATGAGTTGACCCAGAAGAAGCTGAACGAGTATCGGCTGGATGA  
AGCTCCCCAAGGACATTAAGGGTTATTACTACAATGGTGACTCTGCTGGGCTGCCAGCTCGCTTAACATTGGAGTT  
CAGTGCTTTTGACATGAGTGCTCCCACCCAGCCCGTTGCTGCCAGCTATTGGAACACTGTATAACACCAACAC  
ACTCGAGTCTTTCAAGACTGCAGATAAGAAGCTCCTTTTGGACAAGCAGCAAATGAGATATGGGAATCCATAAA  
ATCAGGCACTGCTCTTGAAAACCCCTGTACTCCTCAACAAGTTCCTCCTCTTGACATTTGCAGATCTAAAGAAGTA  
CCACTTCTACTATTGGTTTTGCTATCCTGCCCTCTGTCTCCAGAGAGTTTACCTCTCATTACAGGGGCCAGTGGG  
TTTGGATCAAAGGTTTTCACTAAAACAGATTGAAGCACTAGAGTGTGCATATGATAATCTTTGTCAAACAGAAGG  
AGTCACAGCTCTTCCTTACTTCTTAATCAAGTATGATGAGAACATGGTGCTGGTTTTCTTGCTTAAACACTACAG  
TGATTTCTTCCAAGGTCAAAGGACGAAGATAACAATTTGGTGTATATGATCCCTGTAACCTTAGCCAGTACCCTGG  
ATGGCCTTTGAGGAATTTTTTGGTCCTAGCAGCCACAGATGGAGTAGCAGTTTCCAGTCTGTTGAAGTTGTTTTG  
CTTCCGTGACCGTACCATGCAGGGGGCGAGAGACGTTGCCACAGCATCATCTTCGAAGTGAAGCTTCCAGAAAT  
GGCATTTAGCCAGATTGTCTAAAGCAGTTGGATGGGAAAAGAACCAGAAAGGAGGCATGGGACCAAGGATGGT  
GAACCTCAGTGAATGTATGGACCCTAAAAGGTTAGCTGAGTCATCAGTGGATCTAAATCTCAAACCTGATGTGTTG  
GAGATTGGTTTCTACTTTAGACTTGGAACAAGTTGTGTCTGTCAAATGTCTGCTGCTTGGAGCCGGCACCTTGGG  
TTGCAATGTAGCTAGGACGTTGATGGGTTGGGGCGTGAGACACATCACATTTGTGGACAATGCCAAGATCTCCTA  
CTCCAATCCTGTGAGGCAGCCTCTCTATGAGTTTGAAGATTGCCTAGGGGGTGGTAAGCCCAAGGCTCTGGCAGC  
AGCGGACCGGTCCAGAAAATATTCCCCGGTGTGAATGCCAGAGGATTCAACATGAGCATACCTATGCCTGGGCA  
TCCAGTGAACCTTCTCCAGTGTCACTCTGGAGCAAGCCCGCAGAGATGTGGAGCAACTGGAGCAGCTCATCGAAAG  
CCATGATGTCGTCTTCCTATTGATGGACACCAGGGAGAGCCGGTGGCTTCCTGCCGTCATTGCTGCAAGCAAGAG  
AAAGCTGGTCATCAATGCTGCTTTGGGATTTGACACATTTGTTGTCATGAGACATGGTCTGAAGAAACCAAGCA  
GCAAGGAGCTGGGGACTTGTGTCAAACCACCCCTGTGGCATCTGTGACCTCCTGGGCTCATCGCTTTTTGCCAA  
CATCCCTGGTTACAAGCTTGGCTGCTACTTCTGCAATGATGTGGTGGCCCCAGGAGATTCAACCAGAGACCGGAC  
CTTGGACCAGCAGTGCAGTGTGAGTCGTCCAGGACTGGCCGTGATTGCAGGAGCCCTGGCCGTGGAATTGATGGT  
ATCTGTTTTGCAGCATCCAGAAGGGGGCTATGCCATTGCCAGCAGCAGTGACGATCGGATGAATGAGCCTCCAAC  
CTCTCTTGGGCTTGTGCCTCACCAGATCCGGGGATTTCTTTACGGTTTGATAATGTCCTTCCCGTCAGCCTGGC  
ATTTGACAAATGTACAGCTTGTCTTCCAAAGTTCTTGATCAATATGAACGAGAAGGATTTAACTTCTTAGCCAA  
GGTGTTAATTCTTCACATTCCTTCTTAGAAGACTTGACTGGTCTTACATTGCTGCATCAAGAAACCAAGCTGC  
TGAGATCTGGGACATGAGCGATGATGAGACCATCTGAGATGGCCCCGCTGTGGGGCTGACTTCTCCCTGGCCGCC  
TGCTGAGGAGCTCTCCATCGCCAGAGCAGGACTGCTGACCCAGGCCCTGGTGATTCTGGGCCCCCTCCTCCATACC  
CCGAGGTCTGGGATTCCTCCCTCTGCTGCCAGGAGTGGCCAGTGTTCGGCGTTGCTCGGGATTCAAGATACCAC  
CAGTTCAGAGCTAAATAATAACCTTGGCCTTGGCCTTGCTATTGACCTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1063**

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTLEFSAFDMSAP  
TPARCCPAIGTLYNTNTLESFKTADKKLLLEQAANEIWESIKSGTALENPVLLNKFLLLTFADLKKYHFYYWFCY  
PALCLPESLEPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGVTALPYFLIKYDENMVLVSLLKHYSDFQGGQRT  
KITIGVYDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEVKLPMAFSPDCPK  
AVGWEKNQKGGMGPRMVNLSECMDBKRLAESSVDLNLKLMCWRLVPTLDLDKVSVKCLLLGAGTLGCNVARTLM  
GWGVRHITFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVT  
LEQARRDVEQLEQLIESHDVVFLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRHGLKKPKQQGAGDLCP  
NHPVASADLLGSSLFANIPGYKLCYFCNDVVAPGDSTRDRTLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEG  
GYAIASSSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYEREGFNFLAKVFNSHSF  
LEDLTGLTLLHQETQAAEIWDMSDDETI

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**FIGURE 1064**

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA  
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCGGCACCAGTCAGACCGATATGTCAAAAATTAAGCGTA  
ACTGGCGGAAACCCAGAGGCATTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCCAACATTG  
GTTATGGAAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACGTCAAGG  
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA  
AAGCCATCGTGGAAGAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGTGAAGAAA  
ATGAGTAGGCAGCTCATGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGCCATCTGGCATCTTCCTTC

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**FIGURE 1065**

MAALRPLVKPKIVKKRTKKFIRHQSDRYVVKIKRNWRKPRGIDNRVRRRFKGQILMPNIGYGSNKKTKHMLPSGFR  
KFLVHNVKELEVLLMCNKSYCAEIAHNVSSKNRKAIVERAAQLAIRVTNPARNLRSEENE



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**FIGURE 1066**

TCGGAGGAGCCAGCCGAAATCCTGCCGCTGCCCGGGACGAGGAGGAGGAGGAGGAAGAGGGGATGGAGCAGGGG  
CTGGAGGAGGAAGAAGAGGTGGATCCCCGGATCCAGGGGAGAACTGGAGAAGTTAAATCAGTCCACGGATGATATC  
AACAGACGGGAGACTGAACCTTGAGGATGCTCGTCAGAAGTTCCGCTCTGTTCTGGTTGAAGCAACGGTGAAACTG  
GATGAACCTGGTGAAGAAATTGGCAAAGCTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGG  
CAGGCTCAGCTGGAAGCTCAGAAAGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCCAAGGAG  
ACCATCTCCCTGGCCGAGCAGCGGCTGCTGGAGGATGACAAGCGGCAGTTTCGACTCCGCTGGCAGGAGATGCTG  
AATCAGCCACTCAGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCATAAGGAGACGGCA  
GCCAGGTACAATGCCGCCATGGGCCGCATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAG  
CCTTATTTTGAACCTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGGCC  
AACTGACCTTGGCAAAGGCGAGTACAAGATGGCCCTGAAGAACCCTGGAGATGATCTCAGATGAGATCCACGAG  
CGGCGGCGCTCCAGTGCCATGGGGCCTCGGGGATGCGGTGTTGGTGTGAGGGCAGCAGCACATCTGTGGAGGAT  
CTGCCAGGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCTTTGAAGATGACAGCTGTAGCAAC  
TTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGGACCAACAAGCCCGTCTGAGATG  
CCTGACCAGTTCCCTGCGGTTGTGAGGCCTGGCAGCCTGGATCTGCCAGCCCTGTGTCCCTGTGAGAGTTTGGG  
ATGATGTTCCAGTGTGGGCCCTCGAAGTGAATGCAGCGGGGCCTCCTCCCTGAATGTGAAGTAGAACGAGGA  
GACAGGGCAGAAGGGGCAGAGAATAAAACAAGTGACAAAGCCAACAACAACCGGGGCCTCAGCAGTAGCAGTGGC  
AGTGGTGGCAGCAGTAAGAGCCAAAGCAGCACCTCCCCCTGAGGGCCAGGCCTTGAGAACCGGATGAAGCAGCTC  
TCCCTACAGTGCTCAAAGGGAAGAGATGGAATTATTGCTGACATAAAAATGGTGCAGATTGGCTGATTATCCTG  
GGCCCTGGCCGATGTGCATATCAACATTTATACATGGAACCTGGAGAACATTGTGCCAATAATCATTTAATATATG  
CCAAATCTTACACGTCTACTCTAAACTGCTCTAATGAAGTTTCAGTGACCTTGAGGGCTAAAGATTGTTCTTCTG  
GGTAAGAGCTCTTGGGCTGGTTTTTTCAGAGCAGAGTTCTTGTTGTGGGTAGACTGTGACTAGGTTACAGCCTTT  
GTGGAACATTCCGTATAACGGCATTGTGGAAGCAATAACTAGTTCCTATGAAAGAACCAGAGCTGGGAAGATGGC  
TGGGAAGCCAGGCCAAAGTGGGGGCAACAGCTTGCTTCTCTTCTCTCACCCTCAGTTTGTATGGGAAAATG  
GAGATGTCCTCTCCACTTTATCCACGATATCTAAATGAAAAAGAAAAGAAACCCACACACAAAGCAAAAACCTCA  
AGTATTAAGAGCACATATTTTTGACCCAGTGGAGGCTTAAAAAAGAGGTTTCAAGAACACAATTCATTTTTCAC  
CACCTCTGGTGTTCAGAGGGGGCTTTTTAAAAAGCGTGTATGCTGGGATACCCATTAAAACCATTTTCTAGAAGG  
CTACCATGAGCTGCATTTTTTGGGGTGGGAAAGGTGAATGCCAGTGGGGATGCGGGGGGATGAGGGTAGGAGGGA  
CTTATAGAAGGGGATTTGTGGCTGTGGGGAGAAGGTTCTACAGCATAAGCCTTATCCTGCCAGCCAAGGGGATT  
TATTCTAAGAGAAGTGCATGTGAAGAATGGTTGCCACTGTTATTAGATTGACAAGATGTTAATTTCTCTGTAGGT  
TGTAACCTTTAAAAATAAATGAAATTATTTAAGGGTTATGCTGCACTAGTATTCCTTAGAGGAAACAGTTCTTTAA  
AGTTAGGAAAGGGAGTAGGCAGGCATGTGTTGGCAAAGGCTGTTAATAGTAGTTAAGTGTTAAGACTGCTTTTCT  
TTAACGTTTTTCATGGTAATGCATATTTAGAGCACTGTATTTTTGTCTTGTTAAGAAAATTTAGCATTTTCTAAAAG  
AAAAAGCAACCCCTCTTTCAAACGTTAATTCTGTACAGCCTGTATATTTAGTCATTTGTAAATCTCTTCATA  
CAATAGTGACTTCTTTTTTGAAGTATACAGTATCTTAATTACAAGGTTATTTGTACTTGTCTTAATACACTAAG  
TGTAATAAAAACGGCTTGAG

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**FIGURE 1067**

MEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEAR  
RVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRLLEDDKRQFDSAWQEMLNHATQRMVMEAEQTKTRSELVH  
KETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAKGEYKMAKNLEMISD  
EIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTS  
PSEMPDQFPVVRPGSLDLPSPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNNRGLS  
SSSGSGGSSKSQSSTSPGQALENRMKQLSLQCSKGRDGIADIKMVQIG

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**FIGURE 1068**

CATGGCAAAAGAACTCCCGGATAATCCGAATTCGTGGTCCTCAGAATTGGTTTAGGGTTGTTTCGCGGTTCTTCC  
CGTATTCTGCCTCCGAGGCCAGTGGGGCTGGCTGTGGGGTGAGTGCGCCTGGCCCTAGCCCTGCAGCCCCCTGT  
GCTGTTTGAGGCGTGAACTCACCTCAGGAAATGTATCTGATCCATTAGCGTGGATTTCATATTATTGGTGATGG  
AGAATCTTCAGCTGTGTTAAGTGTTACCGTCAGTTTCAGAGATGGCTTCTTTGCAAAGGAAAGGGCTGCAGGCAA  
GGATTCTCACCTCTGAAGAAGAGGAGAACTGAAAAGAGACCAAACTTTGGTGTCTGATTTTAAACAGCAGAAAT  
TGGAACAAGAGGCTCAGAAAAATTGGGATCTTTTTTACAAAAGAAATAGCACTAATTTCTTCAAAGACAGACACT  
GGACCACCAGAGAGTTTGAGGAGCTAAGATCATGTAGAGAGTTTGAAGATCAAAAGTTAACAATGCTTGAAGCTG  
GCTGTGGGGTTGGAACTGTTTATTCCCACTTTTAGAAGAAGATCCGAATATCTTTGCCTATGCCTGTGATTTTT  
CTCCAAGAGCCATTGAATATGTTAAGCAAAATCCTTTATATGATACAGAAAGATGCAAGGTATTCCAGTGTGATC  
TGACTAAAGATGATCTTCTGGATCATGTACCGCCAGAGTCTGTGGATGTTGTTATGTTGATATTTGTGCTGTGAG  
CTGTTTCATCCTGATAAGATGCACCTTGTCTTACAAAACATTTACAAGGTATTAACCAGGCAAAAAGTGTCTTGT  
TTCGTGACTACGGACTGTATGATCATGCCATGCTTAGGTTTAAAGCCAGCAGCAAACCTTGGAGAAAACTTTTATG  
TTAGACAAGATGGGACCAGATCATATTTTTTTACTGATGACTTCCTGGCTCAGCTCTTTATGGACACAGGTTATG  
AAGAAGTGGTAAACGAGTATGTGTTTCGAGAGACGGTGAATAAAAAAGAAGGCCTGTGTGTGCCAAGAGTTTTCC  
TTCAGAGCAAATTTCTAAAGCCTCCTAAGAACCCATCTCCTGTGGTCCTGGGCCTGGATCCTAAGTCCTGACCTT  
TCATGAGGTTGGCATTATACCTTCCCTTGAAGAGGAAAATTTAAAATCACTCTTTTCGTCTGGGTGCGGTGGCTC  
ATGCCTGTAATCCAGCACTTCGGGAGGCCGAGGTTGGGGGATCATCTGAGGTCAGGAGTTTGAGACCAGCCTGG  
CCAACATGGTGAGACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATAGTGGCGAGTGCCTGTAATCC  
CAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAAGAGGCGGAGACTGCAGTGAGCCAAGATCATGC  
CATTGCACTCCAGCCTGGGCGACAGAGTGAGACCTGTTTCATAAATAAATAAAATCACTCTTTTACTTTATAT  
ATTTTTTGAGACAGGATCTTGTGGTACGCAGGCTGGAGTGCAGTGGTGTGTGATCACAGCTCATTGTAGCCTCGA  
CCTCCCCTGGGCTCAAGCAGTCTTCCTGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGTAAGCCACCATGCC  
TGGCCCTTAATTTTTTTTTAATGAGCATGTACAGTAGTCCCGCTTTATCCATGGTTTCACTTACCACAATTTCAAT  
TACCTGTTTTCACTGCAGTCAGTTACTTTTCTTAAGATATTTTGAAGGTTATAGGCTCATGCCTATAACCCAG  
CACTTTGAGAGGCCAAGGCCAGCAGATCCCTTGAGCCAGGAGTTCAAGACCAGTGTGGGCAACATGGTGAACT  
CTGTCTCTACAGAAAATACAAAATTAGCCAAATGTGGTGGCATGTGCCTGTAGTCCCAG

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**FIGURE 1069**

MASLQRKGLQARILTSEEEKLRDQTLVSDFKQKLEQEAQKNWDLFYKRNSTNFFKDRHWTTREFEELRSCRE  
FEDQKLTMLEAGCGVGNCLFPLLEEDPNIFAYACDFSPRAIEYVKQNPLYDTERCKVFQCDLTKDDLLDHVPPES  
VDVVMLIFVLSAVHPDKMHLVLQNIYKVLKPGKSVLFRDYGLYDHAMLRFKASSKLGENFYVRQDGTRSYFFTDD  
FLAQLFMDTGYYEEVVNEYVFRETVNKKEGLCVPRVFLQSKFLKPPKNPSPVVLGLDPKS

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**FIGURE 1070A**

GACAATGAAAAGCGAACCCCATTTGCACGCCGACGCTTACCTTGGAGATGCAGAAATCATTGAACTTCTTATTTTA  
TCTGGAGCTAGAGTTAATGCCAAAGACAGCAAATGGTTGACACCTTTACACAGAGCAGTTGCATCTTGTAGTGAG  
GAAGCAGTTCAGGTACTTTTGAAGCATTCTGCAGATGTTAATGCTCGAGACAAAAATTGGCAAACCCCTTTACAT  
ATAGCTGCTGCTAATAAAGCTGTAAAGTGTGCTGAAGCTTTGGTACCTCTTCTGAGTAATGTAAACGTATCTGAT  
CGAGCAGGGAGGACTGCATTACATCATGCAGCTTTCAGTGGACATGGTGAGATGGTCAAACCTACTCTTGTCTAGA  
GGTGCCAATATTAATGCTTTTGACAAGAAAGATAGGCGTGCTATCCATTGGGCAGCATATATGGGTCACATTGAA  
GTAGTGAAATTGCTTGTGTGCGATGGAGCTGAAGTGACATGCAAGGATAAAAAGTCTTATACACCTCTTCATGCA  
GCAGCCTCTAGTGGAATGATCAGCGTAGTCAAGTACCTTCTAGATCTTGGAGTTGATATGAATGAACCAAATGCC  
TATGGAATACACCTCTTCATGTAGCCTGCTATAATGGACAAGATGTTGTAGTGAATGAACTTATAGACTGTGGT  
GCTATTGTGAATCAAAAGAATGAAAAAGGATTTACTCCTTTGCACCTTTGCTGCTGCATCAACACATGGAGCATTG  
TGTTTAGAGCTTCTAGTTGGCAATGGGGCCGATGTCAATATGAAGAGTAAAGATGGGAAAACCCCACTACACATG  
ACTGCTCTCCACGGTAGATTCTCCCGATCACAAACCATTATCCAGAGTGGAGCTGTAATCGACTGTGAGGATAAG  
AATGGAATACCCCTTTGCACATAGCAGCACGGTATGGCCATGAGCTGCTGATCAACACTCTTATTACAAGTGGT  
GCTGACACTGCAAAGCGTGGCATAACATGGAATGTTCCCCCTCCATTTGGCAGCCTTAAGCGGCTTTTCAGATTGC  
TGCAGAAAACCTTCTTTCTTCAGGATTTGATATAGATACCCAGATGATTTTGGCAGGACTTGTCTACATGCAGCT  
GCAGCTGGAGGGAATTTGGAGTGCCTAAACCTTCTGCTGAATACTGGTGCAGACTTTAATAAAAAGGACAAATTT  
GGGAGATCTCCACTGCACTACGCTGCTGCCAAGTGAATTACAGTGCCTGTTTGTCTTGTGGGATCAGGAGCA  
AGTGTGAATGACCTTGATGAAAGAGGCTGCACACCCCTGCACTATGCAGCTACATCAGACACAGATGGCAAGTGC  
CTGGAATACTTATTAAGAAACGATGCAATCCAGGGATCCGTGATAAGCAAGGATACAACGCAGTTCATTATTCA  
GCTGCTTATGGTCACCGTCTATGTCTTCAGCTGATTGCAAGTGAACCTCCTCTAGATGTTTTAATGGAAACCTCA  
GGAACAGACATGCTGAGTGATTAGATAATAGAGCAACAATAAGCCCTTTACACTTGGCTGCCTATCATGGTCAC  
CATCAAGCACTGGAAGTGTGGTACAGTCTTTGTTAGATCTTGATGTCAGAAATAGTAGTGGAAAGAACCCCTA  
GATCTTGCAGCTTTTAAGGGCCATGTTGAATGTGTGGATGTACTCATTAAATCAGGGAGCCTCAATCTTAGTAAAA  
GATTACATTTTGAAGAGGACACCTATTATGCAGCAGCAACAAATGGTCATTGAGAATGCTTACGGCTATTAATA  
GGAAATGCAGAACACAGAATGCAGTGGATATTCAAGATGGAAATGGACAGACGCCTCTGATGCTATCTGTTCTC  
AACGGGCACACAGACTGTGTTTACTCATTGCTGAACAAAGGAGCAAATGTAGATGCCAAAGATAAGTGGGGAAGG  
ACAGCGTTGCATAGAGGGGCGAGTTACAGGCCATGAAGAATGTGTAGATGCATTACTTCAACATGGTGTCTAAGTGC  
TTACTTCGGGATAGCAGGGGCGGACGCCTATACACCTGTCTGCTGCCTGTGGACACATTGGTGTCTTGGAGCC  
CTTTTGCAGTCAGCAGCATCTATGGATGCAAATCCAGCCACAGCAGACAATCATGGATATACGGCACTTCACTGG  
GCTTGCTACAATGGTTCAGAGACATGTGTAGAACTGCTTTTAGAACAGGAAGTTTTCCAGAAAACGGAAGGAAAT  
GCTTTTAGTCCATTGCATTGTGCCGTGATAAATGACAACGAAGGTGCTGCTGAGATGTTAATTGATACATTAGGT  
GCCAGCATTGTGAACGCCACAGATTCAAAGGAAGAACTCCTCTCCATGCAGCCGCCTTCACAGACCATGTAGAG  
TGTTTACAGCTGCTGCTCAGCCATAATGCTCAAGTCAATTCTGTGGACTCTACAGGGAAAACACCTCTTATGATG  
GCTGCAGAAAATGGACAAACAAATACAGTTGAGATGCTGGTTAGCAGTGTAGTGCAGAACTGACTTTACAAGAT  
AACAGTAAAAATACTGCCCTCCATTTGGCTTGTAGCAAGGGTCATGAAACTAGTGCCTTGTAAATACTGGAAAAG  
ATAACAGATAGAAACCTCATCAATGCAACCAACGCAGCCTTGCAAACACCTCTGCATGTTGCTGCCCCGAAATGGG  
CTAACAAATGGTGGTTCAGGAACCTTTTGGGAAAAGGAGCAAGTGTGCTTGCAGTAGATGAAAATGGCTATACCCCA  
GCTTTGGCCTGTGCTCCCAATAAGGATGTGGCTGATTGCCTGGCTCTCATTTTGGCCACCATGATGCCTGTCTCA  
TCAAGTAGTCCTTTATCATCCTTAACATTCAATGCCATTAAACCGTTATACCAACACCTCAAAAACAGTCAGCTTT  
GAAGCTTTGCCCATCATGAGGAATGAACCTAGCTCCTATTGCAGTTTCAATAACATTGGAGGGGAACAGGAGTAC  
TTATACACTGACGTGGATGAGCTCAACGACTCCGATTCTGAGACCTACTGAGAGGCTGAGGAGGAGGGAGTTCTC  
ACAGTAAAGCTTCAAACCTGTGCTTTTTCAGGAAAAGGCACTTTGATATTCACGTAGAAATTC AACCTAAGAGGA  
AAGATCCCACAGTGAGCCAATGTTAAGAGATCTGATGGCATTAGGAGGAAGAGTTTTAAAGGCAAGTTTTACAAA  
AGGAACCTCTAGAATCTTGAAATAGACCTGACTGAGGAAAACACATTGATGTCAGAAATCTTTGTGGAATTGTTT  
AATTTGGTTTTGCAGTGCCAGGAACAATTGGGGACACTGTGCACTCTAACCTGCTTACACAAGCAACACTATTGT  
AACAGAAGAAATAAAGACACTAGATTTAAATTTTATCAATAAAATTACAACTAAATTTAAAGGCAATAAAAGTTT  
GGTACAGTAGGCATTATGTGCACAGCAAATTGCAAAAGGACCAATAAAGTAAAGGTTTTTAAATAAAATGCCA  
TTTTGTGGAACCTGGAGTAGATTAAATGAAACATTACCTAAACCAAACTGCAATATTTCTGGAATGAAGCTGAG

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**FIGURE 1070B**

ATTGTTTAAATGTTGAGTTTTTTTGGGTTTTGTTTTTTTTTAAAGAAAACATCTGAAAGCCTTCCAATGCTG  
TATTAAACCATGAGAGAAAGCAGATGTATTTTTACATTTTTTTCTTTTACAGAACTATTTCAAATTTCCAATTTT  
TATACTATTAGAATTA AAAACCAGCTGACTGGGTGCAATACGGGTGAAAATACTTGTGACATAGACATTGAGATG  
GATTGGGGTCAGGCTGTTGCCCTGTTTTGAATGGTTTGGGTTTAAATAGTACTATTTTTGTTTGAAAATGTAAA  
GAATTTCCTAGAAAAAAATTCATGAAATCAAAAAGTAGACTATTTACCCCTATTGCAGCTAAGTGGTCCTGGGGC  
ATGGAGTCTTCAACCTCTCTATGAATGGCACACCTTAGTCACCTTATGTTACTTTTGTGTCCCCACCATGGGTTGG  
GGGATTTTTTTGTTTATTCTGATCTATGAGTTTTGAAAAAGTGAATAATCAAAAGGAAAATAATTCCTTGTGTTC  
ATAAATTAAGCATCACTAAAGTCTCTTGAAAGGCATTTCTGTATTGGGCAAGATTTAAATACTAAAGCCTTAGG  
TCCTATTCATATTTAAAGTAGCATGTTTGTAACCTGTTACTATTTGGAGAGAGAAGCAGTTGCCTGCCAAATTGA  
AGACTACCTTTCAAATAGCAAAAGAGAGAGAGAAGGCTGATATTTGGGCTTTTAAATAAAGATTTGTGTGGTTCT  
GCTTTTACTGTAACGTCACTTTCCAGTGAAAATGATTTTCATATACATTGAGGGTCTTACAGGTATGGGTAAAG  
TTCTATAAATTGCAACAAAATGATACCCAATTTCAATTTATCCTTTTGTATTGTGAACTGGAACTTTATGAC  
ATTGTAAATTATCAGCTGGTTTTTCTGAATATAAAGTGTGAAAACACAGAACAGTATTTTGATCTATTTGATAAT  
TTTGTGGGTTTTTTGAAGAATTAATGAGCATGTACATAGAAATAGTGACTGCTTGAATACTGTATTTACTTGCAC  
TCTTTCAGTACATCAAGATTCCTGTATATTTTAGAGTATAATAAAACACAGATGTGAGTTGTATTTAATGAATAA  
TGTATTTGTATCTGTGCATATTATCTACAAATCTATAAAGTTTCTAGGGCATTGACTACTAGATTTTAAGCATTT  
TTTCTAAAATATTTACAGAAATTATAAATCTAATCCCCCATCTTTCTTTATAATATAAAGAAGTCATAATGAAC  
CCTTCCTAATTATTAGTAGTAGGAAGGTGAATATGCATTTTAATGACAGTGGACTACATTTTCTATTGTACCTTT  
TGAAAAAAAAAAAAATCAAGCAGATTCTAAAAGTATACATATGTGTGCTTTCTCTTTCTTTTAGGAATTCTCTT  
CTGAATTCCCTGAGGGAATTTCTAGAATCTCAGAATTGAAAGAGACCTGAGGTTTCATCCAGTCTCTAACCTCTT  
AACAAATGCAGGAGTCCCTTCTACAAGGGTGATCTTTCCACCTTGAACACTTCCAAGTGACTCTACCTCACCAAG  
CAGTCCATTCAAGTTGTTGAGCAGCTCTAACTGTTAGAAAGGTCTTCCTTAGATGGAGTTGAAGCCTCCCTCCCGG  
TAACTTCIGTCTTTGGGCTGGGTCTGTCTCCAAAGAGAACCTGAGAAATGTTGGAAGGATGAATCTCGCACATT  
CTGCCATGTCTTCTCTTTTACAGGCTGTTTGACTTCTCIGCTGAAAGTGATTTCCAGAAGGACTCATTTGACACAC  
TATTAGATTTACCACATCTAATGAAATCCAAGGTGTAGCTATAAAGTGACAAGCTGTTTTTAATTTATCACATAC  
ACCAGAACTTCTATCCTGCATCACTTATATGTAAATGATGCTGTACCAAAAACATTAAGGTAGTTCTTGCGAAT  
GCCACCCCACTAAGAAAATATTTCACTTTTGTAAATCCATCTGTGAGAGTCTGCCCCCAGCTTAACCACTT  
CCTTTGGTCTGCACCCAATGAAGGGAACCCCAAGTACTGTCTCAAATGGTATTTGAACTACG

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**FIGURE 1071**

MVKLLLSRGANINAFDKKDRRAIHWAAYMGHIEVVKLLVSHGA EVTCKDKKSYTPLHAAASSGMISVVKYLLDLG  
VDMNEPNAYGNTPLHVACYNGQDVVVNELIDCGAIVNQNEKGFTPLHF AAASTHGALCLELLVGNGADVNMKSK  
DGKTP LHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLITSGADTAKRGIHGMFPLHLA  
ALSGFSDCCRKLLSSGFDIDTPDDFGRTCLHAAAAGGNLECLNLLLNTGADFNKKDKFGRSPLHYAAANCNYQCL  
FALVGS GASVNDLDERGCTPLHYAATS DTDGKCLEYLLRNDANPGIRDKQGYNAVHYS AAYGHR LCLQLIASETP  
LDVLMETSGTDM LSDSDNRATISPLHLAAYHGHHQALEVLVQSLLDLDVRNSSGRTPLDLAAFKGHVECV DVLIN  
QGASILVKDYILKRTP IHAAATNGHSECLRL LIGNAEPQNAVDIQDGNGQTPLMLSVLNGHTDCVYSLLNKGANV  
DAKDKWGRTALHRGAVTGHEECVDALLQH GAKCLLRDSRGRTPIHLSAACGHIGVLGALLQSAASMDANPATADN  
HGYTALHWACYNGHETCVELLLEQEVFQKTEGNAFSPLHCAVINDNEGAAEMLIDTLGASIVNATDSKGRTP LHA  
AAFTDHVECLQ LLLSHNAQVNSVDSTGKTPLMMAAENGQNTVEMLVSSASAELTLQDNSKNTALHLACSKGHET  
SALLILEKITDRNLINATNAALQTPLHVAARNGLT MVVQELLGKGASVLAVDENGYPALACAPNKDVADCLALI  
LATMMPVSSSSPLSSLT FNAINRYTNTSKTVSFEALPIMRNEPSSYCSFNNIGGEQEYLYTDVDELNDSDSETY

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**FIGURE 1072**

CTTCCTGACAGCACACAACCTTGATTAGGAGGGGCTGGGAGGGAGGATCGATGAGCCCCTGACCCCTGGGTTCCTG  
AGGCTGCCAGGGTCGCTTGACAGCTCGGCCGCGTGGAGGTGACCGGGCGGAACCTCCGAGGGGGCGCGGGGAGAGCT  
GGGCGGGCCCCACCGCTCCAGCGGCTGCTGTCAGGGGCGCGAGGCTTTCCCTGAAGATGCAGCGTAGCATATTTT  
GCACATGAGTTTACAGAGGAAGAGGAAGTGTAGCCGGCGGACGCGCGGGCGGGCGGGCGGGGGCGCGTTCGGGGCTGG  
AGCCGGAGCGCGCCGGGCGCTGGGCGCAGCGAGCGAGAGCGCGGGCGGGCGGGCTCCGGCGAGGGACAGACGCA  
CCGATCGCCGGAGGGACAGACACACGACCACGCGGCGCCACCGCCACGCTCCACCCACCGGCGCCCAAGTCCT  
CCCCGCGCGCCTCCTCTGTATGGCACAACTTTCCCTCCCGGACGGAACACGCTGCCTCAGGGAGCCCGCGACC  
GCGCCTTCTCCTCCGCGGTCCCATACGCTGCTGAAATGGGTTCGGGATTGAACAAGTTAGAGAAACGTGATGAA  
AAACGGCCTGGGAATATTTATTCAACTTTGAAGAGGCCTCAGGTGGAAACCAAGATAGATGTGTCTATGAATAC  
CGCTTCCTGGAGTTCACGACTCTGAGTGCTGCGGAGCTCCCTGGGTTCCTCAGCAGTGAGGCTGGCCTCCCTGCGT  
GACCTGCCCCGCCAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGCTGGCGGCCCTGCACCCCTTCGTGCAGCCC  
ACCCATGAGCGGGGAGAAGACGCCCCCTGGAGCACATCTTTAGAGCCATCCTGATCAAGAAAACCGACAGATCTCAG  
AAAATGATCTTCACAATGAAGGCTACATCTTGAATTAGATTGCTGTTCCCTTAGACCACCCGACAGACCAG  
AAACTCATCCCAGAGTTCATTAAAGAAGATCCAGGAGGCTGCAAGCCAGGGCCTGAAATTCGTTGGTGTATACCT  
CAGTACCATTCTCTGTGAACTCGGCAGGCAGCAGTGCTCCGGTGTCTACTGCCAACAGCACCAGGATGCCAGA  
GATGCAAAAAACGCACGTGGGGATCACGCGTCACTGGAGAATGAGAAACCGGGGACTGGGGATGTGTGCAGTGCT  
CCGGCTGGGAGAAACCAAGCCCAGAGCCCAGCTCAGGCCCCAGAGGGGAGGTGCCCTCGCCAAGCAGCCCAGC  
TCACCTCCGGAGAGGGAGATGGTGGAGAATTTACCACAGGGGGGTGAGCAAGACACTGGATGGACGGAGAGC  
AACCCCTTGGAGGTGCATGAAGAGCCACTCTCAGGGAAAATGGAGATCTTACCCCTTTTCAACAAACCGAAGAGC  
CATCAGAAGTGCCGGCAATACTACCCTGTACCATTCTCTCCATGTCTCCAAGAATGGCCAGACAGTGAGCGGT  
TTGGACGCCAACTGGTTAGAGCACATGAGCGACCACTTCCGGAAGGAGGCATGCTGGTGAACGCAGTCTTCTAC  
CTTGAATAGTGAATGATTCTTACATGGCTTGACAGATGGAGTATTCATCTTGAAGCTGTTTCCACAGAAGAT  
AGCAAAACCATACAGGGCTATGATGCTATTGTGGTTGAACAATGGACAGTCTTGAAGGTGTGCAAGTGCAGACA  
GACTACGTGCCCCCTGCTGAACTCGCTGGCGGCCTATGGCTGGCAGCTCACCTGTGTGCTACCAACTCCCGTCGTC  
AAGACTACCAGCGAGGGGAGTGTATCCACCAAGCAGATTGTCTTTCTTCAGAGACCTTGTCTACCTCAGAAAATC  
AAGAAGAAGGAATCGAAGTTTCAGTGGCGATTCTCCAGAGAAGAAATGCACAACAGGCAGATGAGGAAATCAAAA  
GGTAAACTCAGTGCCAGAGACAAACAACAAGCAGAAGAAAATGAGAAGAACTTAGAAGACCAGTCTTCAAAGCT  
GGAGACATGGGAAACTGTGTTTTCAGGACAGCAGCAGGAGGGTGGAGTCTCCGAGGAGATGAAGGGCCCTGTCCAA  
GAGGACAAGGGAGAACAGCTGTCCCCTGGTGGCCTGCTGTGTGGGGTGGGTGTGGAGGGTGGGCTGTGCAGAAT  
GGTCTTGCCAGCCACAGCAGGGCCCTGGTGGGGATTGCACTGGGCACTCCAATCCTGGAGAGGATGCCAGGGAC  
GGGGATGCTGAGGAAGTCAGAGAGCTTGGTACGGTTGAAGAAAATCAGTCTTGGGCAATTTGTGCTAAAACCTAG  
GTGAGTTGCCAAACCCAGGCATCTTACCAACAGCTGGTTTGGGGGCTGGTTTCCCTGGTGTGTGTGTACCTA  
CCCTTTGGCTTGGCTTGACCTCTCCTTGTGAGCTCACCTGAGCCCTCCCAGGGCCAGGTTCTGACAGTGTGGT  
TTTTGCACATCCACTGGAAAGGTGTCATTAATGACCCAGTGTTAGAATGCAAGAGGTCAGGTTATTCTAGCCCTC  
ATGGCTGAAGGCCAGTCTTGCTCCACCCTCCTCCAGCCAGAGGGTCTGGACCATCCAGTGCCTGTCTCGCC  
ACAGGGCCTCCAGGGAGCATTCGGGTCAAATCCATGGACACCCTGGGCTACAAACCAAGGCTGCTGTTTCATCCCA  
CATCGTGTGGGCGAGTGTCCATCCCCTGCAGCTACTTGGTGACTTAACAACCTCCAGGAGCCCTGTCAGCTGCCCT  
CCTCCACCTAAACCCCTTCGACTCTTCTGCTTTGACAAAGAAAATGACATTGGGGAGGGGAGGTGCTCCGCTCC  
CAGCTTTTCTCAAAATAGTCTATAGATACTGGTAATCTGGAAATGAAGAAGTAATCTGTCTCTGCACCTACTT  
TTGCAGAATGTTCAAGGAAGTATTCTGTGTTAGTATTAATGCCAAAAAGTTGTTTTAAAGGTTTTGTACTCAGC  
ACATCATACAAACCACATTACTTCTGTCACTTCAGGGCATCGGGACTGGCTGGCGCCCTTGTATGTGCTATTTT  
AATCAGTGTAACATTGGTCAAGTTGTTACCATGTATGCTGTGTTTATCATGTGTATATCGTCCAGAAAGTATTA  
AGGCTTTAGGTAGATGCAACTGGCGAACCTTGGAGAGGGAATGCTGATTGTCTTGACCAACCCACAGCCTGTCT  
CTTCTCTGTTTAGTTACTTACGGCAATAAATCATCTATGAGTT



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**FIGURE 1073**

MCCGLINKLEKRDEKRPNGNIYSTLKRPQVETKIDVSYEYRFLEFTTTLSSAAELPGSSAVRLASLRDLPAQLLELYQQ  
GFSLAALHPFVQPTHEREKTPLEHIFRAILIKKTDRSQKTDLHNEGYLELDCCSSLDHPTDQKLIPEFIKKIQE  
AASQGLKFVGVIPQYHSSVNSAGSSAPVSTANSTEDARDAKNARGDHASLENEKPGTGDVCSAPAGRNQSPPESS  
GPRGEVPLAKQPSSPSGEGDGGELSPQGVSKTLDGPESNPLEVHEEPLSGKMEIFTLFNKPKSHQKCRQYYPVTI  
PLHVSKNGQTVSGLDANWLEHMSDHFRKGGMLVNAVFYLGIVNDSLHGLTDGVFIFEAVSTEDSKTIQGYDAIVV  
EQWTVLEGVEVQTDYVPLLNSLAAYGWQLTCVLPVVKTTSEGSVSTKQIVFLQRPCLPQKIKKKESKFQWRFS  
REEMHNRQMRKSKGKLSARDKQQAENEKNLEDQSSKAGDMGNCVSGQQQEGGVSEEMKGPVQEDKGEQLSPGGL  
LCGVGVEGEAVQNGPASHSRALVGICTGHSNPGEDARDGDAEEVRELGTVEEN

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**FIGURE 1074**

GCAATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGT  
CTGCCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTCATGACATGGTAGACCAACTGGAACAA  
ATTCTCAGTGTGTGACAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTCAATTTGTTAAAAACACTCAATCT  
AGCTCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTCAGTGAG  
TCTCATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCC  
TGCTATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATG  
CACTGCAGTGCTTGTTTCAGAAAATCCTCCAGCTGGTATAGCCATAAAGGGAAACCCCACTACAGGGTCAGCTAC  
GAAAAGAGTATTGACTTGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCTTCTACCAACCTCACTGATAGCTGC  
ATGGATCTAGCCAGGTGCTGCTTACAACCTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATC  
CAAGCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATC  
AGTCTCATCAAGGAGTGTATTTCCAGTCCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCTTGCTGAG  
CTGCTGAGGGTTGCAGGTGAGAACCAGAAAGCGGGGACAGGTTCTAATCCTTTTAGTGGAGCAGGCACCTTC  
GCTTCCATGACTACAAAGCAGCCAGTATGCAATTGTCAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATG  
TTTGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGCTTTGA  
CACATTGCCCTCCTAGCAGCATTGAACTTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATTCTTTATCAAA  
GAGTGAATTTCCAGATCCATCATGAAGGAGGGGAAAAATATCAGTGCTTCACCATTAACTAGTAAAGCAGTACAAG  
AGGATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCC  
TTTCCAACACCACAACCACCACCAAAAGCGGTGCTGCAGGCCGTGAGTGATGGGCAGTGTTGGAAGAAGTCTTTAA  
CTTACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCAATATCAAATCGGAACTACAGCCAATGAAGATCTAG  
AGAAACAAGGTGTATCCTTTTTATGAATCTGTATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATG  
ACACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAAGTGGAAAATTGGCAGAGGCTAAAA  
ATAAAGGAGAAGTATTTCCAACAACCTGAAGTTCTCTTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCT  
TGGCTCTTGCTTACCTTCTTGCTTACCACAAGTGTTAGATGCTAACCAGTGCTTTGAAAAGCAGTCCCCCTCTG  
CATTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACA  
AGTGCCATCCTCTTTACAGGGCTGATCCCAAAGAACTAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGC  
ACGAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCTTGATTTC  
CTCAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAA  
GGGAAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTT  
ACAGTGCTCTCCGCTGGGAAGTTTTATGACCCATTTGGAGTCTCTCTTACGGACAGTGTTTGTCCACACTAG  
AAATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTTACCAGCACA  
TGGTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAA  
ACTGTGGCTGTGCAGATTTGGGGAAGTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTTAAGG  
TTGTTGCATCAGGTCTTAATTACAAAAGCTGACAGATGAAAACATGAGTCTCTTGAAGCATTGGAGCCAGTTC  
TTTCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCTCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCC  
CAAGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCCTCATCTCATTAAACAAGTCCCAG  
GCTCTTACCCGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCA  
TCACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCGTAAAGAGATGA  
CTAGAAAGGCTATTAAGACAGTCAAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAG  
AAGCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAACCC  
TGAGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATC  
TGTCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGA  
TTCAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCCAAGGATATAGTGCAGAGTGAATCATGA  
AAATAATTTCTGCATTGAG

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**FIGURE 1075**

GCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC  
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTT  
TTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAG  
AAGCCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCA  
ATGCACCCAAGAGGCTTCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACATC  
CTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGC  
CTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGC  
CTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAG  
ATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGAAGAAGATGATGATGATGAATAAGTTGGTTGTA  
GCGCAGTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAATTCACCTTTTTTAAAGAAAAAAATTG  
AAATGTAAGGCGGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG  
TGTCTTTAGATAGCCCTGTCTGGTGGTATTTTCAATAGCCACTAAGTTTGCCTGGTACAGTATGGGGGTTGTAA  
ATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCCAGCACAAATTAGTTATATATGGGGATGGTAGTTTTT  
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTAACTGAATACCACTCTGTAATTG  
CAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTA

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**FIGURE 1076**

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG  
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG  
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG  
ATTCGTGTTGCGCGTGGTGGCCGAAAACGCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT  
GTTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCACTGTGGGGCTCTG  
AGAGTCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTGAGGTTATCCTCATTGATCCATT  
CATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAACCAGTCCACAAGCACAGGGAGATGCGTGGG  
CTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGAAAGGGCCACAAGTTCACCACACTATTGGTGGCTCTCGC  
CGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTTAATATAAGTAAAGTTTGTAATAATTCA  
TACTTAATAACAATTTAGGACAGTCATGTCTGCTTACAGGTGTTATTTGTCTGTTAAACTAGTCTGCAGATGT  
TTCTTGAATGCTTTGTCAAATTAAGAAAGTTAAAGTGCAATAATGTTTGAAGACAATAAGTGGTGGTGTATCTTG  
TTCTAATAAGATAAACTTTTTTGTCTTTGCTTTATCTTATTAGGGAGTTGTATGTCAAGTGTATAAAACATACTG  
TGTGGTATAACAGGCTTAATAAATTCTTTAAAGGAGAGAACTGAAACTAGCCCTGTAGATTTGTCTGGTGCATG  
TGATGAAACCTGCAGCTTTATCGGAGTGATGGCAATGCTCTGCTGGTTTATTTTCAAGTGGCTGCGTTTTTTTTTA  
GTTTGGCAGGTGTAGACTTTTTAAGTTGGGCTTTAGAAAATCTGGGTTAGCCTGAAGAAAATTGCCTCAGCCTCC  
ACAGTACCATTTTAAATTCACATAAAAGGTGAAAGCTCCTGGTTCAGTGCCATGGCTTCATGGCATTCAAGTGATT  
AGTGGTAATGGTAAACACTGGTGTGTTTTGAAGTTGAATGTGCGATAAAATTATTAGCCTTAAGATTGGTAAGCT  
AGCAATGAATGCTAGGGTGGGAAGCTGGTGAGCCAGTGGCCATTAGATAAATACCTTTCAAGTGTGAGCTTAGAC  
GTCAACCCTAAAATACTTAACCGTAATGCTAATTGTGATCATTATGAATCCCTTCAGTCACATTAGGGGGAAAGT  
AGTTGGCTATAAGTACGTCATTCTTAGTCCAGTCAGTCTTAAAAACATCTTGGGTTACCCACTCTGTCCACTCCC  
ATAGGCTACAGAAAAAGTCACAAGCGCATGGTTTCCAACCATATGTGTTTTCTGCAGTTATTTCTCTTGTCTGG  
CCAAACAACCCTAAAAATCCTTACCATTCCACAAAGTTGGACCATCACTTGTGCACCCACTTTGACTATGAGTAT  
ACCACCACATTGCATTTCTGTTTGCACCATGTCTTCCAGGAGACTAGACTACTGTTGTCCAGGGTCAATTTGAGT  
GTAAAGAAAATGTAGACAAGGAATTGCCCAATTTTAAATTCTGACTTTGCTGACTTAATTTAAATGCTCGTTCTG  
AACCAATTTTCTCCTATCTTCTCTAGGGGTTTCAAAAGACTCAGTTAATTGATTTCCAGGAAGTACTCATAGCAA  
GTTTCATAAAAGTTCTTGAGACCTAAATTTCTTCAAAAAAAGAAAAGATCTTAAGTCATACATTTTAATTGTGT  
AGAGGTTGTTCAACTGAAGGAATAAATGTCTATTAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1077**

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPTRPDKARRLG YKAKQGYVIYRIRVRRGGRKRPV  
PKGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLNSYWVGEDSTYKFFEVLIDPFHKAIRRNPDQTQW  
ITKPVHKKHREMRGLTSAGRKSRLGKGHKFHHTIGGSRRAAWRRRNTLQLHRYR

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**FIGURE 1078**

GTGACAGAAGTAGTAGGAAGTGAGCTGTTTCAGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGGACCAGAATTC  
CCCCATGCGAGCTGTTTGGAGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGGTTTGTCTGGGCACCGTCCG  
GGGTAGGATCCGGAACGCATTTCGGAAGGCTTTTTGCAAGCATTACTTTGGAAGGAGAACTTGGGATCTTTCTGGG  
AACCCCCCGCCCCGGCTGGATTGGCCGAGCAAGCCTGGAAAATGGTAAATGATCATTGATCAATTACAGGCTT  
TTAGCTGGCTTGTCTGTCATAATTCATGATTGCGGGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAAGGGG  
CAGAGTTTGATGGAGTTGGGTGGACTTTTCTATGCCATTGCTCCACACCTAGAGGATAAGCACTTTTGCAGAC  
ATTCAGTGCAAGGGAGATCATGTTTGACTGTATGGATGTTCTGTCTAGTGAGTCCTGGGCAAAATCCTGGATTTCTA  
CACTGCGAGTCCGTCTTCTGTCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGA  
ATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAGCCCCC  
ATCTCCACTTCCCTCCCCCTCGAGTGTAACAACCTGCTTCGTCTGCCAGGACAAATCATCAGGGTACCCTATGG  
GGTCAGCGCCTGTGAGGGATGTAAGGGCTTTTTCCGCAGAAGTATTCAGAAGAATATGATTTACACTTGTACCCG  
AGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATACTGTCTGACTCCAGAAGTGCTTTGAAGT  
GGGAATGTCCAAAGAATCTGTCTAGGAATGACAGGAACAAGAAAAAGAGGAGACTTCGAAGCAAGAATGCACAGA  
GAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTCCCTTC  
ACTCTGCCAGCTGGGTAAATACACCACGAATTCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCTCTGGGA  
CAAATTCAGTGAACCTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACTGG  
CTTGACCATCGCAGACCAAATTACCCCTGCTGAAGGCCGCTGCCTGGACATCCTGATTCTTAGAATTTGCACCAG  
GTATACCCCAAGAACACAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACAATGCTGG  
ATTTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAAC  
AGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCT  
ACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGACCCAGCAAGCCTCACATGTTTCCAAA  
GATCTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAATGGA  
AATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGCTGGAGAATTCTGAAGGACATGAACCTTGACCCCAAG  
TTCAAGTGGGAACACAGCAGAGCACAGTCTTAGCATCTCACCAGCTCAGTGGAACAGTGGGGTCAGTCAGTC  
ACCCTCGTGCAATAAGACATTTTCTAGCTACTTCAAACATTTCCCGTACCTTCAGTTCCAGGATTTAAAAATGC  
AAGAAAAAACATTTTTACTGCTGCTTAGTTTTTGGACTGAAAAGATATTAAGAACTCAAGAAGGACCAAGAAAGTTT  
TCATATGTATCAATATATATACTCCTCACTGTGTAACCTTACCTAGAAATACAACTTTTCCAATTTAAAAAATC  
AGCCATTTTCATGCAACCAGAACTAGTTAAAAGCTTCTATTTTCTCTTTGAACACTCAAGATTGCATGGCAAG  
ACCCAGTCAAAATGATTTACCCCTGGTTAAGTTTCTGAAGACTTTGTACATACAGAAGTATGGCTCTGTTCTTTC  
TATACTGTATGTTTGGTGCTTTTCTTTTGTCTTGCATACTCAAAATAACCATGACACCAAGGTTATGAAATAGAC  
TACTGTACACGTCTACCTAGGTTCAAAAAGATAACTGTCTTGCTTTTCATGGAATAGTCAAGACATCAAGGTAAGG  
AAACAGGACTATTGACAGGACTATTGTACAGTATGACAAGATAAGGCTGAAGATATTCTACTTTAGTTAGTATGG  
AAGCTTGTCTTTGCTCTTTCTGATGCTCTCAAACCTGCATCTTTTATTTTCATGTTGCCAGTAAAAGTATACAAAT  
TCCCTGCACTAGCAGAAGAGAATTCTGTATCAGTGTAACCTGCCAGTTCAGTTAATCAAATGTCATTTGTTCAATT  
GTTAATGTCACTTTAAATTAAGAGTGGTTTATTACTTGTGTTAATGACATAACTACACAGTTAGTTAAAAAATTT  
TTTTTACAGTAATGATAGCCTCCAAGGCAGAAACACTTTTCAGTGTTAAGTTTTTGTGTTTACTTGTTCACAAGCCA  
TTAGGGAAATTTTCATGGGATAATTAGCAGGCTGGTCTACCACCTGGACCATGTAACCTAGTGTCTTCTCTGATT  
CATGCCTGATATTGGGATTTTTTTTTTCCAGCCTTCTTGATGCCAAGGGGCTAATTAATATTAACAACTCCCAAAG  
AAACAGGCATAGAATCTGCCTCCTTTGACCTTGTTCATCACTATGAAGCAGAGTGAAAGCTGTGGTAGAGTGGT  
TAACAGATACAAGTGTGAGTTTCTTAGTTCTCATTTAAGCACTAGTGGAATTTTTTTTTTGTATATATTAGCAA  
GTCTGTGATGTACTTTTCACTGGCTCTGTTTGTACATTGAGATTGTTTGTGTTAACAATGCTTTCTATGTTTCATATA  
CTGTTTACCTTTTTTCCATGGAGTCTCCTGGCAAAGAATAAAATATATTTATTTT

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**FIGURE 1079A**

ATGGCCAAGTCGGGTGGCTGCGGCGCGGGAGCCGGCGTGGGCGGCGGCAACGGGGCACTGACCTGGGTGAACAAT  
GCTGCAAAAAAAGAAGAGTCAGAACTGCCAACAAAAATGATTCTTCAAAGAAGTTGTCTGTTGAGAGAGTGTAT  
CAGAAGAAGACACAACCTTGAACACATTCTTCTTCGTCCTGATACATATATTGGGTGAGTGGAGCCATTGACGCAG  
TTCATGTGGGTGTATGATGAAGATGTAGGAATGAATTGCAGGGAGGTTACCTTTGTGCCAGGTTTATACAAGATC  
TTTGATGAAATTTTGGTTAATGCTGCTGACAATAAACAGAGGGATAAGAACATGACTTGTATTAAAGTTTCTATT  
GATCCTGAATCTAACATTATAAGCATTGGAATAATGGGAAAGGCATTCCAGTAGTAGAACACAAGGTAGAGAAA  
GTTTATGTTCCCTGCTTTAATTTTGGACAGCTTTTAACATCCAGTAACTATGATGATGATGAGAAAAAAGTTACA  
GGTGGTCGTAATGGTTATGGTGCAAACTTTGTAATATTTTTCAGTACAAAGTTTACAGTAGAAAAACAGCTTGCAAA  
GAATACAAACACAGTTTTAAGCAGACATGGATGAATAATATGATGAAGACTTCTGAAGCCAAAATTAACATTTT  
GATGGTGAAGATTACACATGCATAACATTCCAACCAGATCTGTCCAAATTTAAGATGGAAAACTTGACAAGGAT  
ATTGTGGCCCTCATGACTAGAAGGGCATATGATTTGGCTGGTTCGTGTAGAGGGGTCAAGGTCATGTTTAATGGA  
AAGAAATTGCCTGTAAATGGATTTTCGCAGTTATGTAGATCTTTATGTGAAAGACAAATTGGATGAAACTGGGGTG  
GCCCTGAAAGTTATTCATGAGCTTGCAAAATGAAAGATGGGATGTTTGTCTCACATTGAGTGAAAAAGGATTCAG  
CAAATCAGCTTTGTAAATAGTATTGCAACTACAAAAGGTGGACGGCACGTGGATTATGTGGTAGATCAAGTTGTT  
GGTAACTGATTGAAGTAGTTAAGAAAAAGAACAAGCTGGTGTATCAGTGAAACCATTTCAGTAAAAAACCAT  
ATATGGGTTTTTATTAATTGCCTTATTGAAAAATCCAACCTTTTGATTCTCAGACTAAGGAAAACATGACTCTGCAG  
CCCAAAAGTTTTGGGTCTAAATGCCAGCTGTGCAAAAAATTTTTTAAAGCAGCCTCTAATTGTGGCATTGTAGAA  
AGTATCCTGAACTGGGTGAAATTTAAGGCTCAGACTCAGCTGAATAAGAAGTGTTTCATCAGTAAATACAGTAAA  
ATCAAAGGTATTCCCAAACCTGGATGATGCTAATGATGCTGGTGGTAAACATTCCCTGGAGTGACACTGATATTA  
ACAGAGGGGAGACTCTGCCAAATCACTGGCTGTGTCTGGATTAGGTGTGATTGGACGAGACAGATACGGAGTTTTT  
CCACTCAGGGGCAAAATTCTTAATGTACGGGAAGCTTCTCATAAACAGATCATGGAATGCTGAAATAAATAAT  
ATTATTAATAAGTTGGTCTACAATATAAGAAAAGTTACGATGATGCAGAATCTCTGAAAACCTTACGCTATGGA  
AAGATTATGATTATGACCGATCAGGATCAAGATGGTTCTCACATAAAAGGCCTGCTTATTAATTTTCATCCATCAC  
AATTGGCCATCACTTTTGAAGCATGGTTTTCTTGAAGAGTTCATTACTCTATTGTAAAGGCAAGCAAAAAATAAG  
CAGGAACCTTTCCTTCTACAGTATTCTGAATTTGACGAATGGAAAAACATATAGAAAACCAGAAAGCCTGGAAA  
ATAAAGTACTATAAAGGATTGGGTACTAGTACAGCTAAAGAAGCAAAGGAATATTTTGCTGATATGGAAAGGCAT  
CGCATCTTGTGTTAGATATGCTGGTCCTGAAGATGATGCTGCCATTACCTTGGCATTAGTAAGAAGAAGATTGAT  
GACAGAAAAGAATGGTTAACAAATTTTATGGAAGACCGGAGACAGCGTAGGCTACATGGCTTACCAGAGCAATTT  
TTATATGGTACTGCAACAAAGCATTGACTTATAATGATTTTCATCAACAAGGAATTGATTCTCTTCTCAAACCTCA  
GACAATGAAAGATCTATACCATCTCTTGTGATGGCTTTAAACCTGGCCAGCGGAAAGTTTTATTACCTGTTTC  
AAGAGGAATGATAAACGTGAAGTAAAGTTGCCAGTTGGCTGGCTCTGTTGCTGAGATGTCGGCTTATCATCAT  
GGAGAACAAAGCATTGATGATGACTATTGTGAATTTGGCTCAGAACTTTGTGGGAAGTAACAACATTAACTTGCTT  
CAGCCTATTGGTCAGTTTGGAACTCGGCTTCATGGTGGCAAGATGCTGCAAGCCCTCGTTATATTTTACAATG  
TTAAGCACTTTAGCAAGGCTACTTTTTCTGCTGTGGATGACAACCTCCTTAAGTTCCCTTATGATGATAATCAA  
CGTGTAGAGCCTGAGTGGTATATTCTTATAATTCCCATGGTTTTTAATAAATGGTGCTGAGGGCATTGGTACTGGA  
TGGGCTTGTAACCTACCCAACCTATGATGCTAGGGAAATTTGTGAACAAATGTCAGACGAATGCTAGATGGCCTGGAT  
CCTCATCCCATGCTTCCAAACTACAAAACTTTAAAGGCACGATTCAAGAACTTGGTCAAACACAGTATGCAGTC  
AGTGGTGAAATATTTGTAGTGGACAGAAACACAGTAGAAATTACAGAGCTTCCAGTTAGAACTTGGACACAGGTA  
TATAAAGAACAGGTTTTAGAACCTATGCTAAATGGAACAGATAAAACACCAGCATTAAATTTCTGATTATAAAGAA  
TATCATACTGACACAACCTGTGAAATTTGTGGTGAAATGACTGAAGAGAACTAGCACAAGCAGAAGCTGCTGGA  
CTGCATAAAAGTTTTTAAACTTCAAACCTACTCTTACTTGTAATTCATGGTACTTTTTGATCATATGGGATGTCTG  
AAGAAATATGAAACTGTGCAAGACATTCTGAAAGAATTCTTTGATTACGATTAAAGTTATTACGTTTTACGTAAG  
GAGTGGCTTGTGGGAATGTTGGGAGCAGAATCTACAAAGCTTAACAATCAAGCCCGTTTTATTAGAGAAGATA  
CAAGGGAAAAATTACTATAGAGAATAGGTCAAAGAAAGATTGATTCAAATGTTAGTCCAGAGAGGTTATGAATCT  
GACCCAGTGAAAGCCTGGAAAGAAGCACAAGAAAAGGCAGCAGAAGAGGATGAAACACAAAACCAGCATGATGAT  
AGTTCTCCGATTACAGGAACCTTCAGGCCAGATTTTAATTATATTTTAAATATGTCTCTGTGGTCTCTTACT  
AAAGAAAAAGTTGAAGAACTGATTAAACAGAGAGATGCAAAAGGGCGAGAGGTCAATGATCTTAAAGAAAATCT  
CCTTCAGATCTTTGAAAGAGGATTTAGCGGCATTTGTTGAAGAACTGGATAAAGTGAATCTCAAGAACGAGAA

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**FIGURE 1079B**

GATGTTCTGGCTGGAATGTCTGGAAAAAGCAATTAAAGGTAAAGTTGGCAAACCTAAGGTGAAGAACTCCAGTTG  
GAAGAGACAATGCCCTCACCTTATGGCAGAAGAATAATTCCTGAAATTACAGCTATGAAGGCAGATGCCAGCAAA  
AAGTTGCTGAAGAAGAAGAAGGGTGATCTTGATACTGCAGCAGTAAAGTGGAATTTGATGAAGAATTCAGTGGA  
GCACCAGTAGAAGGTGCAGGAGAAGAGGCATTGACTCCATCAGTTCCTATAAATAAAGGTCCCAAACCTAAGAGG  
GAGAAGAAGGAGCCTGGTACCAGAGTGAGAAAAACACCTACATCATCTGGTAAACCTAGTGCAAAGAAAGTGAAG  
AAACGGAATCCTTGGTCAGATGATGAATCCAAGTCAGAAAGTGATTTGGAAGAAACAGAACCTGTGGTTATTCCA  
AGAGATTCTTTGCTTAGGAGAGCAGCAGCCGAAAGACCTAAATACACATTTGATTTCTCAGAAGAAGAGGATGAT  
GATGCTGATGATGATGATGATGACAATAATGATTTAGAGGAATTGAAAGTTAAAGCATCTCCCATAAACAAATGAT  
GGGGAAGATGAATTTGTTCTTCAGATGGGTTAGATAAAGATGAATATACATTTTCACCAGGCAAATCAAAAGCC  
ACTCCAGAAAAATCTTTGCATGACAAAAAAGTCAGGATTTTGGAATCTCTTCTCATTTTCCTTCATATTCTCAG  
AAGTCAGAAGATGATTCAGCTAAATTTGACAGTAATGAAGAAGATTCTGCTTCTGTTTTTTCACCATCATTTGGT  
CTGAAACAGACAGATAAAGTTCCAAGTAAAACGGTAGCTGCTAAAAAGGGAACCGTCTTCAGATACAGTCCCT  
AAGCCCAAGAGAGCCCCAAAACAGAAGAAAGTAGTAGAGGCTGTAAACTCTGACTCGGATTGAGAAATTTGGCATT  
CCAAAGAAGACTACAACACCAAAAGGTAAAGGCCGAGGGGCAAAGAAAAGGAAAGCATCTGGCTCTGAAAATGAA  
GGCGATTATAACCTTGGCAGGAAAACATCCAAAACAACGAAGCAAGAAACCGAAGAAGACATCTTTTGATCAGGAT  
TCAGATGTGGACATCTTCCCCTCAGACTTCCCTACTGAGCCACCTTCTCTGCCACGAACCGGTCTGGGCTAGGAAA  
GAAGTAAATATTTTGCAGAGTCTGATGAAGAAGAAGATGATGTTGATTTTGCAATGTTTAATTAAGTGCCCCAAA  
GAGCACAAACATTTTCAACAAATATCTTGTGTTGTCCTTTTGTCTTCTGTCTCAGACTTTTGTACATCTGGC  
TTATTTTAATGTGATGATGTAATTGACGGTTTTTTTATTATTGTGGTAGGCCTTTTAACATTTTGTTCCTTACACAT  
ACAGTTTTATGCTCTTTTTTACTCATTGAAATGTCACGTACTGTCTGATTGGCTTGTAGAATTGTTATAGACTGC  
CGTGCATTAGCACAGATTTTAATTGTCATGGTTACAAACTACAGACCTGCTTTTTGAAATGAAATTTAAACATTA  
AAAATGGAACCTGTG



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**FIGURE 1080**

MAKSGGCGAGAGVGGGNGALTWVNNAAKKEESETANKNDSSKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQ  
FMWVYDEDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIISIWNNGKIPVVEHKVEK  
VYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHF  
DGEDYTCITFQPDLSKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETGV  
ALKVIHELANERWDVCLTLSEKGFQQISFVNSIATTKGGRHVDYVVDQVVGKLEIEVVKKKNKAGVSVKPFQVKNH  
IWFINCLINPTFDSQTKENMTLQPKSFGSKQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSK  
IKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPLRGKILNVREASHKQIMENAEINN  
IIKIVGLQYKKSYYDDAESLKTTRYGKIMIMTDQDQDGSNIKGLLINFIIHNNWPSLLKHGFLEEFITP IVKASKNK  
QELSFYSIPEFDEWKKHIENQKAWKIKYYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKID  
DRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQQRKVLFTCF  
KRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFGTRLHGKDAASPRYIFTM  
LSTLARLLFPAVDDNLLKFLYDDNQERVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRMLDGLD  
PHPMLPNYKNFKGTIQELGQNQYAVSGEIVVDRNTVEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKE  
YHTDTTVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLTCSNMVLFDHMGCLKKYETVQDILKEFFDLRLSYGLRK  
EWLVGMLGAESTKLNNQARFILEKIQGKITIENRSKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDDETQNQHDD  
SSSDSGTPSGPDFNYILNMSLWSLTKEKVEELIKORDAKGREVNDLKRKSPSDLWKEDLAAFVEELDKVESQERE  
DVLAGMSGKAIKGVGKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFSG  
APVEGAGEEALTPSVP INKGPKPKREKKEPGTRVRKPTTSSGKPSAKKVKKRNPWSDDSKSESLEETEPVVI  
RDSLLRRAAAERPKYTFDFSEEEEDDDADDDDDNDLEELKVKASPIITNDGEDEFVPSDGLDKDEYTFSPGSKA  
TPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSDNEEDSASVFSFGLKQTDKVP SKTVAACKGKPSSDTVP  
KPKRAPKQKKVVEAVNSDSEFGIPKKTTPKPKGRGAKKRKASGSENEGDYNPGRKTSKTTSKPKKTSFDQD  
SDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVDFAMFN

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**FIGURE 1081**

GAGAAGGCCCCAGGAAGTGACGGCCGCCCTCCCGGCTACCGGGGACTTCTGGAGTCCGAGAAGTCAACGGCGCGGTT  
GCTGCGGGCCGCGCGCTCCCCGGCCCGAGGCGATGGAGAACGGAGCGGTGTACAGCCCCACTACGGAGGAGGACC  
CGGGCCCCCGCCAGAGGCCCGGAGCGGCCCTCGCTGCCTACTTTTTTCATGGGCGGGCTCCCATTTGCTCCGGCGCG  
TTCTCAAGGGCTTGCAGCTGTTGCTGTCTCTGCTGGCCTTCATCTGTGAAGAAGTTGTATCACAATGTACTTTAT  
GTGGAGGACTTTATTTTTTTGAGTTTGTAAGCTGCAGTGCCTTTCTTCTGAGTCTCCTTATACTGATTGTGTATT  
GCACTCCATTTTATGAGAGAGTTGATACCACAAAAGTAAAATCATCGGATTTTTATATTACTTTGGGAACAGGAT  
GTGTGTTTTTTGTTGGCATCCAATCATTTTTGTTTCCACACATGACAGGACTTCAGCTGAGATTGCTGCAATTGTGT  
TTGGATTTATAGCAAGTTTTATGTTCCCTACTTGACTTTATCACTATGCTGTATGAAAAACGACAGGAGTCCCAGC  
TGAGAAAACCTGAAAATACCACTAGGGCTGAAGCCCTCACTGAGCCACTTAATGCCCTAAAGACTCTGGGGAGCAG  
ATGTTACCTAAGGTAGTGACCCCTGCATTGTGGTGCCTGAGCCCTGGCAGAAGCTCTTGTAATAATTTGTTAATTGT  
TTAAACCACTTCTTTTGGAGAGCAAGGGGAAGGTCAAGAAGGCAGTTTTATCAATATTGTGTGTCAGTCACCACAAA  
GTAGGCCAGATAAGTTAAAAAAATTTTTTTTTAAATAATAATTGAACTTATCTCAAATGGAGATTTTGGTGGG  
AGGAGGAGAAAACAATTGTTTTTAAATCACACAGCTCAACGGTTGATAAATGATTCTGTCAATTCTGTTACAGGTC  
ATTCTTTTACTAGGCTTAGCTTCCAAATTATGCTTTATAGCTGTATAAACATCGTGATTATATTCATCTACTTAG  
AAATTGTTTTATTTTTTAAATTAATTTGCTTAGCTGTTTGTGTTTGTATGCTTAGATTATGTTCTGTTAATGGGAATT  
TAACATATTTAAGAAACCAATATTTAAATGTTGGTCTAGGTTTTTTTCCTTAACATATATTACCAGGCTTTACT  
GTATTTCACTCAGCCTTAAATGTTATAATATTTTTGGATAACGGTTATTAATTCTTTGAGACCTTCGTATAGCCT  
ATAAAATGTATGGGAGATGTTGGTATTTTATGTGTATAAAAGCAACAATATCAGCAACTTCGTGTTTATACTGCA  
CCTTGTTTGTGATGTCAAGTAAAAAAAAGATTGTTTTGTAACACATAAAAAAATGGAAGAACTGATACCACAC  
CTAAGGACCAAAGATAAGAAAGACTTTTTTGCCCAAGACAGTGAAAGTAATTATAAAAAACAAGCTTTGACCACTTA  
CCAAGTATCTGAAGAGATGAGTTCATACTATGATTTAGAAAGTGTTTCGATTCCCCTGTTGGCATATGATTATTT  
TTACTAAAATTAATACAGCTCTGTGGGTCTTCCCTAGTGTTTTCTTTGAAGCCAATCTGTTTTTTTTTAGGACACC  
AGCCTTTGGTTTTTTCATCTGTTTCGAGATGCCTCTTCTCTGTCTCCTTATCAGATAGAAATGGAGTCATGTGCTGC  
TGCTTCATCTAGCAGAGGTTGGCCTCTGGCTCTGACACTTTTTGTGAGTTGTCTTTAGGTGGTCCTGAATCTTGG  
GCCCTTTTGATTGTGAATACTGTGTAGCAGGATCTTGAGAGTCCTTGTTCTTACATAGGCATTGCTCTAGTTTGT  
CTTTGGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1082**

MENGAVYSPTTEEDPGPARGPRSGLAAYFFMGRPLPLRRVLKGLQLLLSLLAFICEEVVSQCTLCGGLYFFEFVS  
CSAFLLSLLILIVYCTPFYERVDTTKVSSDFYITLGTGCVFLLASIIFVSTHDRTSAEIAAIVFGFIAFMFLL  
DFITMLYEKRQESQLRKPENTTRAERALTEPLNA

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**FIGURE 1083**

ATGGATGCTGTGTGCTATGGTGAAGCTGTTTCTTCCCAGCAGCAGGGAGAGAAAAAGGAGAAGAGGAAACACAAG  
AAGAAATGCGTGGTGCAGAGCCTCAATTCCTACTTCATGGATGTGAAATGCCCAGGATGCTATAAAATCACTACA  
GCAGTTTCTAATTCCTGCAATTTTCCCCTTAATGGCTCTCCGGATGTTGCCACTGATTATGGTGCCGTTTCATGGC  
TCTTCAGCAGGTGCTGGGCATAGGCACCAGGAAGCCCTGTTTAATAGTGTGTCTGCCTTTTCTTTACATGCTCCC  
TCGGGTGAAGCAAGGCAGATGGAGAAGGCTTTAGCAGACAGCGTGGGCATGTTTCCAAGCCCTCAGGCTGCTGAG  
CAACAATGCCGATGCCAGCACCAACAGGCTGAGGTGGCTTCTTCATTTTAG

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**FIGURE 1084**

MDAVCYGEAVSSQQQGEKKEKRKHKKKCVVQSLNSYFMDVKCPGCKYKITTAVSNSCNFPLNGSPDVATDYGAVHG  
SSAGAGHRHQEALFNSVSAFPLHAPSGEARQMEKALADSVGMFPSPQAAEQQCRCQHQQAEVASSF

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**FIGURE 1085**

GCTAAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGAAGTTGGACAGGGCTCAGGAAAGA  
CTGGCCACGGCCCCGCAGAAGCTGGAGGAGGCAGAAAAGCTGCAGATGAGAGTGAGAGAGGAATGAAGGTGATA  
GAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAATTTCAGGAGCTGCAGCTCAAAGAGGCCAAGCACATTGCG  
GAAGAGGCTGACCGCAAATACTGGGAGGTAGCTCGTAAGCTGGTCTTCCTGGAGGGTGAGCTGGAGAGGGCAGAG  
GAGCGTGTGGAGGTGTCTGAACTAAAAATGTGGTGACCTTGAAGAAGAAGTCAAGAATGTTACTAACAATCTGAAA  
TCTCTGGAGGCTGCGTCTGAAAAGTATTCTGAAAAGGAGGACAAATGTGAAGAAGAAATTAACTTCTGTGTGAC  
AACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAACGGTTGCAAACTGGAAAAGACAATTGATGAC  
CTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAG  
CTTAAGTGTATATAAGCAAAACAGAAGAGTCTTGTTCCAACAGAACTCCGGAGCTCCGTGGGTCTTTCTCTTCT  
CTTGTAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTGGAAATGTCAAGCAAATTATGAATACATGACCA  
AATATTTTGTATTGGAGAAGCTTTGAGCACGAGTTAAATCTCATGCCTTCCCTTTTTTTGTCAAATGGCACCAAC  
TTTTTCAGCTCTCTTATTTTTTCTTAAGTTGCATTTATTCCTAAGGTAGGCAGGGTATTTCTAGTAAGCATAG  
TTTCTTAAGACAGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGAACACAGACCCCAAGTAT  
CTAGTCGTGGATATGATTAAAACGCTGAAGACCACAACCTTTTGGGTCAACTGTTGGTCAAATATAGGAGAGAC  
CAGGGACCACCCCACTCCTATTTATTCAGCACCACACTACCCAGGAAATACACTAGCAAATTGTGCAATGGAATA  
AAATCCACACTTTACTTTAGATTCTTGCAACTGTATCATATGTAATAGTATCACTTTTTTCTACATTTTGGTCAAA  
TAAATTTTTTACATAAACTAC

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**FIGURE 1086**

AGCTCATCCACACTTCCAATCACTTTCCGGAGTGCTTCCCCTCCCTCCGGCCCGTGCTGGTCCCCGACGGCGGGCC  
TGGGTCTCGCGCGCGTATTGCTGGGTAAACGGGCCTTCTCCCGCGTCGGCCCGGCCCTCCTGCCTCGGCTCGTCC  
CTCCTTCCAGAACGTCCCGGGCTCCTGCCGAGTCAGAAGAAATGGGACTCCCTCCGCGACGTGCCCGGAGCAGCT  
CCCTTCGCTGTGGAAGCGGCGGTGTCTTCGAAGAAACCGGAAGCCCGTGGTGACCCCTGGCGACCCGGTTTGT  
TCGGTCCGTTTCCAAACACTAAGGAATCGAACTCGGCGGCCTTGGGGGCGGCCCTACGTAGCCTGGCTTCTGGT  
TGTCATGGATGCACCTGGTAGAAGATGATATCTGTATTCTGAATCATGAAAAAGCCATAAGAGAGATACAGTGAC  
CCCAGTTTCAATATATTAGGAGATGAATCTGTGCTTCCCATTTTGCTCTTGTCACCTGCATATGAAGACATCAA  
AAAACGACTTAAGGATTCAGAGAAAGAGAACTCTTTGTTAAAGAAGAGAATAAGATTTTGAAGAAAAGCTAAT  
AGCTCGATTTGAAGAAGAAACAAGTTCCGTGGGACGAGAAACAAGTAAATAAGGCCTATCATGCATATCGAGAGGT  
TTGCATTGATAGAGATAATTTGAAGAGCAAACCTGGACAAAATGAATAAAGACAACCTCTGAATCTTTGAAAGTATT  
GAATGAGCAGCTACAATCTAAAGAAGTAGAACTCCTCCAGCTGAGGACAGAGGTGGAACCTCAGCAGGTGATGAG  
GAATTTAAATCCACCTTCATCAAACCTGGGAGGTGGAAAAGTTGAGCTGTGACCTGAAGATCCATGGTTTGAACA  
AGAGCTGGAACCTGATGAGGAAAGAATGTAGCGATCTCAAAATAGAACTACAGAAAGCCAAACAAACGGATCCATA  
TCAGGAAGACAATCTGAAGAGCAGAGATCTCAAAAACTAAGCATTTCAGTGATAATATGCAGCATGCATACTG  
GGAACCTGAAGAGAGAAATGTCTAATTTACATCTGGTGACTCAAGTACAAGCTGAACCTACTAAGAAAACCTGAAAAC  
CTCAACTGCAATCAAGAAAGCCTGTGCCCTGTAGGATGCAGTGAAGACCTTGAAGAGACAGCACAAAACCTGCA  
CTTGATGAATTTTACTGCAACATACACAAGACATCCCCCTCTCTTACCAAATGGCAAAGCTCTTTGTACATACCAC  
ATCTTCCCCCTTACCAGGAGATGTAAAGGTTTTATCAGAGAAAAGCAATCCTCCAATCATGGACAGACAATGAGAG  
ATCCATTCCATATGATGGTACATGCTTTCAGGAACACAGTTCTTATGGCAGAAATTCTCTGGAAGACAATTCCTG  
GGTATTTCCAAGTCCTCCTAAATCAAGTGAGACAGCATTGCGGAAACTAAAACCTAAAACCTTTGCCTTTACCCAA  
CCTTCCACCCTGCATTACTTGGATCAACATAATCAGAACTGCCTTTATAAGAATTAATTTGGAAGAGATTACG  
ATTCACCATGAGGACACTTATCTCTTTCAGTGGTCCCTCCCAAGAAATTATTTAACAACCTGAAAGGAGATTTTG  
ATTAATTTTGCAGAGGTCTTCAGTATCTATATTTGAACACACTGTACAATAGTACAAAACCAACATAGTTGG  
TTTTCTAGTATGAAAGAGCACCTCTAGCTCCATATTCTAAGAATCTGAAATATGCTACTATACTAATTAATAAG  
TAACTTAAGGTGTTTTAAAAAACTCTGCCTTCTATATTAATTGTAAATTTTGCCTCTCAGAAGAATGGAATTGG  
AGATTGTAGACGTGGTTTTACAAAATGTGAAATGTCTAAATATCTGTTTCAAAAAATAAAAGGAAAACATGTTTC  
TTCAAATTGCATAATGGAACAAATGGCAATGTGAGTAGGTTACATTTCTGTTGTTATAATGCGTAAAGATATTGA  
AAATATAATGAAATAAAAGCATCTTAGGTTATACCATCTTTATATGCTATTGCGTTTCAATATTTAAGATTTAAA  
GTGATTTTTTGGTCACAGTGTTTTGTTGATAAAATTTTTTAGAATTGAAGTTTGAATTCTAAGACTTGAAACAA  
CCTGATCATTGAAGCCAACCTTGTCCAGCACATTCTTAAGTCCTAATTGGGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1087**

MDALVEDDICILNHEKAHKRDTVTPVSIYSGDESVASHFALVTAYEDIKKRLKDSEKENSLLKKRIRFLEEKLIA  
RFEEETSSVGREQVNKAYHAYREVCIDRDNLSKLDKMNKDSESLKVLNEQLQSKEVELLQLRTEVETQQVMRN  
LNPPSSNWEVEKLSCDLKIHGLEQELELMRKECSDLKIELQKAKQTDPTYQEDNLKSRLQKLSISSDNMQHAYWE  
LKREMSNLHLVTQVQAELLRKLTSTAIKKACAPVGCSEDLGRDSTKLHLMNFTATYTRHPPLLPNGKALCHTTS  
SPLPGDVKVLSEKAILQSWTDNERSIPNDGTCFQEHSSYGRNSLEDNSWVFPSPPKSSETAFGETKTKTLPLPNL  
PPLHYLDQHNQNCLYKN



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**FIGURE 1088**

GCGATGGAGCCGGGGCGCCGGGGGGCCGCGGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGCGCGCCGGG  
CGCGCCCAATACGAACGCTACAGCTTCCGCAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGGCCTACCGG  
CACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCCGAGAGCGTGGGCTACCTGGAGATCAGCCTGCGGCTGCAC  
CGCTTGCTGCGCGACAGCGAGGCCTTCTGCCACCGCAACTGCAGCGCCGCGCGCAGCCCCGAGCCCCGCCGGC  
CTCGCCAGCTATCCCGAGCTGCGCCTCTTCGGGGGCTGCTGCGCCGCGCGCACTGCCTCAAGCGCTGCAAGCAG  
GGCCTGCCAGCCTTCCGCCAGTCCCAGCCCAGCCGCGAGGTGCTGGCGGACTTCCAGCGCCGCGAGCCCTACAAG  
TTCTTGCACTTCGCTTACTTCAAGGCAAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTCTACTGAAG  
CATCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACTACATTAAA  
GACCTGGAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCGGGCATAACAACGGTGAGAACTGGAGAACA  
TCCATCACAGACATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCTGCGAGGGT  
TCCAGGGAGATCAAGGACTTCAAGGATTTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGGAATGCAAA  
ATACAGTGTGAAGAGAACCTCACCCAGTTATAGGAGGCTATCCGGTTGAGAAATTTGTGGCTACCATGTATCAT  
TACTTGCACTTTGCCTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATCTGCTCTTT  
GATCAGAATGACAAGGTTCATGCAGCAGAACCTGGTGTATTACCAGTACCACAGGGACACTTGGGGCCTCTCGGAT  
GAGCACTTCCAGCCCAGACCTGAAGCAGTTTCAGTTCTTTAATGTGACCACACTCCAGAAGGAGCTGTATGACTTT  
GCTAAGGAAAATATAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGGAAGTGGAGGAG  
ACCAGCTAGCCACAGCAACCAAAGAGACTTCCTCTTGCGGTTTCAGGAAACACAGATTCTTTGTCCTTTTCCCAA  
CAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCGCTCTCTCTAACT  
GCATGTCATCAGGGGTGAGCCTGCCTTTCTTATCTTCACACCTGCCACCTCATGTTACACCTATCTTTCTCACC  
TTTTTTTTGAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACTGCAACCTC  
CGCCTCTTGGGTTCAAGCAATCTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCCACCACGCC  
CGGCTAATTTTGTATTTTGTAGTAGAGACGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCTTGACTTCAG  
ATGATCCATCTGCCTTGGCCTCCACAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCGGCCTCTTTCTCACC  
TTTACACCTGTCTTCTTATCTCACATCTGTTTTACACCTTCATCCCTGTCTTCTCATGTTACACTTGTCTT  
CCCCATGTTTCATAGCTGCCTTTCTTACCATTTTGGTTTGAAGGGCAGTCTTCTCTGGCTTGTTTTTTTGTTC  
CCAGAAAATCAGTATTATTTTTTAAATAAGAAAAACATTCTAGAGATGATAATTGTGAAAACCTCCTTTGGCT  
TATTTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGGAAGACATAGGCTAAATTTCTC  
CAGCCTCACAAATGGTCTTCACTTGGTCTGACTTGTACCAATTCTAGCACCCTGAAAAACAAGTTGAGTAGAGA  
GTGTAGAGTGCAGAAATGTGGCTTTTGCCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCGATCCCATTGGA  
GGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAAGCCAGAGCTGTCTAGTTTTCATTTCATTCTTTC  
AGTAAATATTTATTGAGT

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**FIGURE 1089**

GAATTCGGGCGCGAAGCGGCCGGCCTGGGCGCCGACTGCAGAGCCGGGAGGCTGGTGGTCA**ATG**CCGGGGTTTCCTG  
GTTTCGCATCCTCCTTCTGCTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCTTGCGCAATGCCACCCAGAGG  
ATGTTTGAAATTGACTATAGCCGGGACTCCTTCCTCAAGGATGGCCAGCCATTTTCGCTACATCTCAGGAAGCATT  
CACTACTCCCGTGTGCCCCGCTTCTACTGGAAGGACCGGCTGCTGAAGATGAAGATGGCTGGGCTGAACGCCATC  
CAGACGTATGTGCCCTGGAACTTTCATGAGCCCTGGCCAGGACAGTACCAGTTTTCTGAGGACCATGATGTGGAA  
TATTTTCTTCGGCTGGCTCATGAGCTGGGACTGCTGGTTATCCTGAGGCCCGGGCCCTACATCTGTGCAGAGTGG  
GAAATGGGAGGATTACCTGCTTGGCTGCTAGAGAAAAGAGTCTATTCTTCTCCGCTCCTCCGACCCAGATTACCTG  
GCAGCTGTGGACAAGTGGTTGGGAGTCCCTTCTGCCCAAGATGAAGCCTCTCCTCTATCAGAATGGAGGGCCAGTT  
ATAACAGTGCAGGTTGAAAATGAATATGGCAGCTACTTTGCCTGTGATTTTGACTACCTGCGCTTCCTGCAGAAG  
CGCTTTCGCCACCATCTGGGGGATGATGTGGTTCTGTTTACCAGTATGGAGCACATAAAACATTTCCTGAAATGT  
GGGGCCCTGCAGGGCCTCTACACCACGGTGGACTTTGGAACAGGCAGCAACATCACAGATGCTTTCCTAAGCCAG  
AGGAAGTGTGAGCCCAAAGGACCCCTTGATCAATTCTGAATTCTATACTGGCTGGCTAGATCACTGGGGCCAACCT  
CACTCCACAATCAAGACCGAAGCAGTGGCTTCCTCCCTCTATGATATACTTGGCCGTGGGGCGAGTGTGAACCTG  
TACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGGGCCAACCTACCCTATGCAGCACAGCCACCAGC  
TACGACTATGATGCCCCACTGAGTGAGGCTGGGGACCTCACTGAGAAGTATTTTGCTCTGCGAAACATCATCCAG  
AAGTTTGAAAAAGTACCAGAAGGTCCTATCCCTCCATCTACACCAAAGTTTGATATGGAAGGTCACCTTGGA  
AAGTTAAAGACAGTGGGAGCAGCTCTGGACATTCTGTGTCCCTCTGGGGCCATCAAAGCCTTTATCCCTTGACA  
TTTATCCAGGTGAAACAGCATTATGGGTTTGTGCTGTACCGGACAACACTTCCTCAAGATTGCAGCAACCCAGCA  
CCTCTCTCTTACCCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCAGGGAGTCCTT  
GAGCGAAACAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATG  
GGACGTGTGAACATATGGTGCATATATCAACGATTTTAAGGGTTTGGTTTCTAACCTGACTCTCAGTTCCAATATC  
CTCACGGACTGGACGATCTTCCACTGGACACTGAGGATGCAGTGCGCAGCCACCTGGGGGGCTGGGGACACCGT  
GACAGTGGCCACCATGATGAAGCCTGGGCCCACAACCTCATCCAACCTACACGCTCCCGGCCCTTTTATATGGGGAAC  
TTCTCCATTCCCAGTGGGATCCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCCTGGATGGACCAAGGGCCAG  
GTCTGGATTAATGGCTTTAACCTTGCCCGCTATTGGCCAGCCCGGGGCCCTCAGTTGACCTTGTTTGTGCCCCAG  
CACATCCTGATGACCTCGGCCCCAAACACCATCACCGTGCTGGAACTGGAGTGGGCACCCTGCAGCAGTGATGAT  
CCAGAACTATGTGCTGTGACGTTTCGTGGACAGGCCAGTTATTGGCTCATCTGTGACCTACGATCATCCCTCCAAA  
CCTGTTGAAAAAAGACTCATGCCCCACCCCCGCAAAAAAACAAGATTTCATGGCTGGACCATGTAT**TGAT**GATGA  
AAGCCTGTGTCTTTGAGGGATTCTACCCTGAACATACCTCACAGATCCTCCCTGTCATGCCACATTTCACTGATT  
GGAATGTGGAAATGGAAAAGGAATTTAGGATGTGCATTTTACCTGAGGTTTCCCTGCATCCCTGCAGTGCCAAA  
GCCCCACCTTCAGGGACCACCTGGAATGTGTGAGGGGCTGCAGCACAGTAACGTGCATACATATCTGCAGGGCT  
GGAATGGAAAGCTTTAAAGGTGGTAGTGATTTTTATTTTGAAGAATCATGTTACCTTTTTGTAAATAAAATTTG  
CCCGAATTC

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**FIGURE 1090**

MPGFLVRILLLLLVLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFRIYISGSIHYSRVPRFYWKDRLLKMKMA  
GLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVILRPGPYICAEWEMGGLPAWLEKESILLRSS  
DPDYLAADVCKWLGVLVLPKMKPLLYQNGGPVITVQVENEYGSYFACDFDYLRFQKRFRRHHLGDDVVLFTTDGAHK  
TFLKCGALQGLYTTVDFGTGSNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARG  
ASVNLVYMFIGGTNFAYWNGANSFYAAQPTSVDYDAPLSEAGDLTEKYFALRNIIQKFEKVPEGPPIPPSTPKFAYG  
KVTLEKLKTVGAALDILCPSGPIKSLYPLTFIQVKQHYGFVLYRTTLPQDCSNPAPLSSPLNGVHDRAYVAVDGI  
PQGVLERNNVITLNTGKAGATLDLLVENMGRVNYGAYINDFKGLVSNLTLSSNILDWTIFPLDTEDAVRSHLG  
GWGHRDSGHHDEAWAHNSSNYTLPAFYMGNFSIPSGIPDLQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLT  
LFVPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVISSVTYDHPVSKPVEKRLMPPPPQKNKDSWLD  
HV

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**FIGURE 1091**

CGCAGGCGGAGCGCAAGTCTGTCTAGCCAGTCAGTCCGCCAGTCCGCCAGCCCAGTACCTCTCTCTCCTCGGCCCT  
CGTAAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTCATCTCGGTGCAG  
CTGAAAAAGACCTCAGAGGTGGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGG  
GAAGAGCAGGCCCAGTACTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGGTCTCGCTG  
GACAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTGTTCTATTGAACCCAAATTCCCA  
TTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTTGGAGGCTCT  
GTAAACTGGCTCTTGCAAGCTTAGGATATGAAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAA  
ATTGCAGCAGAACAGAACCTGGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGT  
GCCTTTTTACATATTAAAGAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACT  
GTTGGGACCCCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAAGCCACAAGAGATAAAATG  
AAAGATGCCATCATAGCTAAATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATAC  
AAAGATACTCTCCCCAAGGAGGTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTAC  
CATCAGTCTATCCTGGCAAACAGCAGAGAAGAAATTTGGAGAAGAAATGCAAGGTTACAGCATGCAGCAGAACTG  
ATTAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTT  
GCTGCAGCAAAGAAGGATAATGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGC  
AAAGCCACACTTGTGAAATCTACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATG  
GTTCCCGTGTGAGTACAGCAGTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCT  
CAGATGAGAGAAGCCACCCTTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTG  
TCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTT  
GATCAGTTGATTAAAGAAGTGCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTG  
GATGAAGAAGAAGCAACCGATAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAA  
CTGTATAAGCCTTTAAGAGCAGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAA  
GTGAAAGAATGTTACCAGTCTCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCC  
ATCCCTTCTGCTAATCCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAAAT  
CTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAG  
TTTTTGACAGCCCTGGCTCAAGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTAGATCGAGTCTAT  
GGAGGTCTTACAATAAGTCCAAGAATCTCTAAAGAAAACAGGAGGGACTTCTTAAAAATATTAGGTCTCACAT  
CAGGAATTTTCAAAAATGAAACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACT  
GCATATGACAACCTTTGTTGAACCTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATC  
CTGGTCAGGTTCCAGAACAATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACCTTAAAGGAC  
TTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCTTCAATTCCCTACACCTGCGTATCAGTCTCACCAGCAGGA  
GGACATGCACCAACTCTCCAACCTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCAGCCAGGCCT  
CCACCACCTGTGCTTCCAGCAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCG  
CCAGCTCCATCACAAACGCCTGGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATCCCACCTATCCAGGA  
TATCCTGGGTATTGCCAAATGCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATAT  
CCACCAGTGTATCACAGAGTCTTGACAGGCTCCATACCCGGGACCCCAGCAGCCTTCATACCCCTTCCCTCAG  
CCCCACAGCAGTCTTACTATCCACAGCAGTAAATATGTCTGCTCAGCAGCTCAGCTGATTGAGATCAGAGGGAAA  
GAAATACCAACCCTGCAATAAGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGC  
AGTGTATAATTTCTGTCTACAGCTAGAAGCTGTGCCCCAGTTCACATTTGATTACACATGTGAGATTTGCTGCT  
GTTGCAGTATAAACACTAGGTATAATAGGATTTGAAATTGCATTACAGTTTCATAAAAATTGAAAATGAGAAATTA  
AACCTGCAAGTGAAACATTTGAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAG  
ATGGTTAAGTATGGATACTAGAGAAAATTAAGTTTTCTTCTCTTTGGTTTATTGATTGGTTAATTTCCATT  
ATGCTATTTTGCATAATCAAGGCACTGTAAATCTTATAATTTTAAATAAATTACTTAAGAAC

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**FIGURE 1092**

MATFISVQLKKTSEVDLAKPLVKFIQQTYPSGGEEQAQYCRAAEELSKLRRAAVGRPLDKHEGALETLLRYDQI  
CSIEPKFPFSENQICLTFTWKDAFDKGSIFGGSVKLALASLGYEKSCVLFNCAALASQIAAEQNLDNDEGLKIAA  
KHYQFASGAFLHIKETVLSALSREPTVDISPDTVGTLSLIMLAQAQEVFFLKATRDKMKDAIIAKLANQAADYFG  
DAFKQCQYKDTLPKEVFPVLAAKHCIMQANA EYHQSI LAKQKKFGEEIARLQHAAELIKTVASRYDEYVNVKDF  
SDKINRALAAAKKDNDFIYHDRV PDLKDLPIGKATLVKSTPVNVPISQKFTDLFEKMVPVSVQQSLAAYNQKA  
DLVNRSIAQMREATTLANGVLASLNLPA AIEDVSGDTPVQSILTKSRSVIEQGGIQTVDQLIKELPELLQRNREI  
LDESLRLLDEEEATDNDLRAKFKERWQRTPSNELYKPLRAEGTNFRTVLDKAVQADGQVKECYQSHRDTIVLLCK  
PEPELNAAIP SANPAKTMQGSEVVNLKSILLSNLDEVKKEREGLNDLKS VNFDMTSKFLTALAQDGVINEEALS  
VTELD RYVGGLTTKVQESLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLKNLATAYDNFVELVANLKEGTK  
FYNELTEILVR FQNKCS DIVFARKTERDELLKDLQQSIAREPSAPS IPTPAYQSSPAGGHAPTPTPTAPRTMPPT  
KPQPPARPPPPVL PANRAP SATAPSPVGAGTAAPAPSQT PGSAPPPQAQGPPYPTYPGYPGYCQMPMPMGYNPYA  
YGQYNMPYPPVYHQSPGQAPYPGPQQPSYPFPQPPQQSYYPQQ

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**FIGURE 1093A**

TTGGCCCGTGCCTGGGGCTGGGGTGGAGGGCGGGACAGAGGGGCTGGGCCAGGCAAAGCTTCTGTCGCTGCTGC  
TGCGGAGGCCGAGGACAGGACGTGGGCTGGGCCGGGCGAGTCCGGACTCGGAGGAGCAGGAGGCGAGGTCCGCCG  
GAGCTCTGAACCCCCGCTGCTCTGCCGCGCGGTGACCCGCGCCCCGCGCCGTCCGACCCGTGGCTGTTCCGAG  
ACGATTGGTGGGGGCGCGGCGGCGGCGGCGGCTGTTGGGGTGGGGAGACGCGCGGCGAGGAGACGAGCGAG  
GTCAGCGAGTTTGGAGGAGGACCGCGAGCCGCTGCCGCCGTCATGTCCGAAGACTCGAGCGCCCTGCCCTGGTCC  
ATCAACAGGGACGATTACGAGCTGCAGGAGGTGATCGGGAGTGGAGCAACTGCTGTAGTCCAAGCAGCTTATTGT  
GCCCCATAAAAAGGAGAAAGTGGCAATCAAACGGATAAACCTTGAGAAATGTCAAAC TAGCATGGATGAACTCCTG  
AAAGAAATTCAAGCCATGAGTCAATGCCATCATCTAATATTGTATCTTACTACACATCTTTTGTGGTAAAAGAT  
GAGCTGTGGCTTGTTCATGAAGCTGCTAAGTGGAGGTTCTGTTCTGGATATTATTAAGCACATTGTGGCAAAAAGG  
GAACACAAAAGTGGAGTCTTAGATGAATCTACCATTGCTACGATACTCCGAGAAGTACTGGAAGGGCTGGAATAT  
CTGCATAAAAATGGACAGATCCACAGAGATGTGAAAGCTGGAAACATTCTTCTTGGAGAAGATGGCTCAGTACAG  
ATTGCAGACTTTGGGGT TAGTGCTTTTTTAGCAACTGGTGGTGATATTACCCGAAATAAAGTGAGAAAAGACCTTT  
GTTGGCACCCCTTGTGGATGGCACCTGAAGTTATGGAACAGGTCCGTGGTTATGATTTCAAAGCTGATATTG  
AGTTTGGAAATTACAGCAATTGAATTGGCTACAGGGGCGGCTCCTTATCATAAATATCCACCAATGAAGGTTTTA  
ATGCTGACACTGCAGAACGATCCTCCTTCTTTGGAACCTGGTGTTCAAGATAAAGAAATGCTGAAAAAATATGGA  
AAATCATTTAGAAAAATGATTTTATTGTGCTTCAA AAAAGATCCAGAAAAAGACCAACAGCAGCAGAACTATTA  
AGGCACAAATTTTCCAGAAAGCAAAGAATAAAGAAATTTCTTCAAGAAAAAACATTGCAGAGAGCACCAACCATT  
TCTGAAAGAGCAAAAAGGTTCCGAGAGTACCAGGTTCCAGTGGGCGTCTTCATAAGACAGAGGATGGAGGCTGG  
GAGTGGAGTGATGATGAATTTGATGAAGAAAGTGAGGAAGGGAAAGCAGCAATTTCACAACTCAGGTCTCCCCGA  
GTGAAAGAATCAATATCAAATTTCTGAGCTCTTTCCAACAACCTGATCCGTGGGTACTTTGCTCCAAGTTCAGAA  
CAGATCTCTGCTCATCTACCTCAGCCAGCTGGGCAGATTGCTACACAGCCAACTCAAGTCTCTCTCCACCCACC  
GCAGAGCCAGCAAAAACAGCTCAGGCTTTGTCTTCAGGATCAGGTTTACAAGAAACCAAGATCCCAATCAGTCTA  
GTACTAAGATTAAGGAATTCCAAAAAAGAACTAAATGATATTGATTTGAATTTACTCCTGGGAGAGATACAGCA  
GAGGGTGTCTCTCAGGAACCTCATTTCGTCTGGCCTGGTCGACGGAAGGGATTTAGTAATAGTGGCAGCTAATTTG  
CAGAAAATTGTGGAAGAACCTCAGTCAAATCGATCTGTCACTTTCAAACCTGGCATCTGGTGTGCAAGGCTCAGAT  
ATTCTTGATGATGGTAAACTGATAGGATTTGCCAGCTCAGCATCAGCTAAACCACAACCCCTGGAAGAGGCGGCC  
TAAGGAGATTCACACATGCGTATCTCTGTTGCTTCTATTGGCCTAAACCCACTACTGCCAAAGAACCAGCAAC  
AAACCTCCCGCTAGGAGCTTTAGAAGTCTTTATGTTCTTCTGCCATCATTCTCTCTTTTCCACAGGGAAAGA  
AAAGTTGGATCACTAGTGGCCAGCATCCCCAGAGTTCGTTAGTAAACTTACTTCATATGTCCCTGTCTTCTC  
CATCTGAGAAGTGGCCCATGTGCTTCAAGGCCAGGAGGGAGATCTGTCACTCATTCTTGCTTACTCCAATGA  
TGGCCCAGGTGGAAGTAGCAGCTGTATCGGGCTTCTCATCTGCTGTTCCCCCACACCTGCCAGGATATGG  
ACATCTTGGGATATCTCTTTACCACTGAAGTAGAATTGATTGTTTCACTGGAGCCAGAGAATTTAATTTAATGT  
TTTTTCTTTGTACCTGATGTGAATTCTAGCAACCTTTGTTAGGAAAAAGCACAGCCTCAGATGGAGGCAGCCTAA  
ACTGTGTTCTTGTGTTTGTTCATGGTGTCTTAAGCGTTTTGCTGAAGCTGCTCTCAGGCACCCCTTCTTCATTG  
CTCTCTCCAGAAAGGGTTGCTAGCCTTAACCTCAGCTGGTGCAAACATCTGACTGTAGCCGAACCTCAGCCATC  
AGATCCTTCAAAGTGGAACCTTTGGATTGTTTTTACAGACAACATCGAGTAATGGCTTGTAATGTGAATTTTGCC  
AGAGGTGGTTTTTGAACAGGAAATCATAATTCATATCATTGGAGAAGTATTTATTTTCAAATATCAAATTGAAG  
AAAACTCAATCCTCCCATGAAATCAGTTCGCCCTGGCCTCCAAGTCGTAGGAAATGGGTATGCAAGGCTGAGA  
TTTCTACAGCAATAAAGGAGACACACACTGGGCCAGAGAGGCCTGCCTTCTGCCTGCTCTCCTGCACTGACCCTT  
TGGAGGGGGTCTCTGTGTGCTGAAGCTAACTCAAGATGGAAGTGAAACCACATGTGCCGTGACCTTTAGGTTTT  
ATGAGTAGACAGTGTTTCAATTTGATTTTCTACAGAAATAATATAAATTATTCTTTAGGTTTAAAAAAGAGCACTCA  
TAATGCAATATGTGAATAATCAGTGAGGTTGATTTTTCTTTTTTCTACCGTTTCATAGTCTTTGTCTAACTGCT  
AGTAACCCTACCGAGTTTTATATATGAGTGGGATACTCAATCTGGCCTTAAAAAGATACACAAAGATGGGCTGTG  
GGTCCCTGGAAAGGGGGAGAGTTGCCCTTTACAGAATCACTCGAGCCCTTTCCAGCACTGTTGGTCTGATGAACA  
AGGTTGTTTTACCTTATTTTTCTTGGAACATATCTGAAAACCTTCCCCACAAATAAATTGTCACACCTTTTGT  
TCATTCTGAGTCTTTAGTTTTAGTCATGGGCTTTCTTACCTGCTCTAGGTGCAAAGGCATGTTGGGAAAGAGAT  
GGATGTTGGGGAGGAAGAGAGGAGATGGATTTAGTTGGGAGTTAGGAGGAGAGTAGGTGAGATGATCAGACACC  
GGAGTTCAACGTCCAGCAGTCTTGGTAAAAGGAGGGAGCCTGCTGAGCCAGGAGGGAGAAAAGAAGATTGACCA

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**FIGURE 1093B**

GCTTGCTAGAAAAATACTTAGCTTTTCTTTTCTTTTTTGTGGAGGGGGACGGAGAGGAACAAGGATGGGGAG  
GTAGGAATGAGGTATAGAAAAGAGATAGCATCTTCTTTGGCACAAGAATAGTGGCTTACCGCTTACCTTAGAGTT  
TTGTTTTTTTTTTTTCAAACCCATCAAAATCTACTTATTTATGAATCCAAGGGGTGGCAGCATCACTCTGTTCTA  
GCATTCTTTGTGGAGATGGTCTGGTGCCTAGCTGGGAGTGAGCAGCAGCCCATCCCCTGTTCACTTTCTCTAGCC  
CATCATTACCTGTGAAGTGCAGTGGGGCAGTCATGGCAAATAGAATTGGGCTGGGGTTTCTCCTTCTTTTCAGTT  
CATTGTTTGGCCTGCTAGGAATTAGAAGACAGACACCATGTCCCAGGACAGTGTTACTTCTTCTGCATGATGTGT  
GGTAGACTCCCTTTGCTGGCTTGTGCAGTGATACTGAGAAAATACATGAACAGAAACTGCCCAGGTGGAACAGCA  
CGTAACCTAGTGAGTGACTGTACTCCTTTCTAGGAATGCTGATTTCAGAGTGCACCTCTTTGACTAGGTCCCAGGA  
TCCCCTTGTCCTTGAGTAGGGACTAACTATAGCACAAAGTAATATGTGCCAATGCTATTTGTGAAATGTTTGGT  
CTTTCTAAACGACTAAAGGATTTGTTGGGTTTTTGCTTAAGTTTTGAACCAAATCCTAGAGCCAGCTGATAATAT  
TTAATAATCTGGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCCTCCTTATGATGTATGCTAGGTTATGG  
AAGATGTAAAATATTCAACTTTTCTCCTTTTTTTGGACTTTGTATTTTACTGCATGTTTTCTTCATTTTAAAT  
CAATAAAGAGTAAATTGTC

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**FIGURE 1094**

MSEDSSALPWSINRDDYELQEVI GSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDLLKEIQAMSQCCHHPNI  
VSYYTSFVVKDELWLVMLLSGGSVLDIIKHIVAKGEHKSGVLDESTIATILREVLEGLEYLHKNGQIHRDVKAG  
NILLGEDGSVQIADFGVSAFLATGGDITRNKVRKTFVGTFCWMAPEVMEQVRGYDFKADIWSFGITAIELATGAA  
PYHKYPPMKVLM LTLQNDPPSLETGVQDK EMLKKYGKSF RKMISLCLQKDPEKRPTAAELLRHKFFQKAKNKEFL  
QEKT LQRAPTISERAKKVR RVP GSSGRLHKTEDGGWEWS DDEFDEESEEGKAAISQLRSPRVKESISNSELPFTT  
DPVGTLLQVPEQIS AHL PQPAGQIATQPTQVSLPPTAEPAKTAQALSSGSGSQETKIPISLVLR LRNSKKE LNDI  
RFEFTPGRDTAEGVSQELISAGLVDGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLS  
IS



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**FIGURE 1095**

ATGCGACCCGACCGCGCTGAGGCTCCAGGACCGCCCGCCATGGCTGCAGGAGGTCCCGGCGCGGGGTCTGCGGCC  
CCGGTCTCCTCCACATCCTCCCTTCCCCTGGCTGCTCTCAACATGCGAGTGCGGCGCCGCCTGTCTCTGTTCTTG  
AACGTGCGGACACAGGTGGCGGCCGACTGGACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGAGATCCGG  
CAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCTGGCAGGGACGCCCTGGCGCCTCTGTAGGC  
CGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGAT  
TGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGACAGCAGT  
GTCCACGGACAGCAGAGCTGGCGGGCATCACCACACTTGATGACCCCTGGGGCATATGCCTGAGCGTTTCGAT  
GCCTTCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGCAAGGAGATGATCCGGCAACTGGAACAGACAACTAT  
CGACTGAAGTTGTGTGTGTCTGACCGCGATGTCCTGCCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATC  
GAAAAGAGGTGCCGCCGGATGGTGGTGGTTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTGACTTCCAGACC  
AAATTTGCACTCAGCCTCTCTCCAGGTGCCCATCAGAAGCGACTGATCCCATCAAGTACAAGGCAATGAAGAAA  
GAGTTCCCCAGCATCCTGAGGTTTCACTGTCTGCGACTACACCAACCCCTGCACCAAATCTTGGTTCTGGACT  
CGCCTTGCCAAGGCCTTGTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTGTGTATCTGTCTGCCTGTC  
CATGTACTTCTGCCCTGCCTCCTCCTTTTCGTTGTAGGAGGAATCTGTGCTCTACTTACCTCTCAATTCCTGGAGA  
TGCCAACTTCACAGACACGTCTGCAGCAGCTGGACATCACATTTTATGTCTGATGGAACCAAGTGGCTGTGAGT  
GGCATGTCCACTTGCTGGATTATCAGCCAGGACACTATAGAACAGGACCAGCTGAGACTAAGAAGGACCAGCAGA  
GCCAGCTCAGCTCTGAGCCATTACACATCTTACCCTCAGTTTCTCACTTGAGGAGTGGGATGGGGAGAACAG  
AGAGTAGCTGTGTTTGAATCCCTGTAGGAAATGGTGAAGCATAGCTCTGGGTCTCCTGGGGGAGACCAGGCTTGG  
CTGCGGGAGAGCTGGCTGTTGCTGGACTACATGCTGGCCACTGCTGTGACCACGACACTGCTGGGGCAGCTTCTT  
CCACAGTGATGCCTACTGATGCTTCACTGCTCTGCACACCGCCCATTCCTTCTCCTTCCCCACAGGGCAGG  
TGGGGAAGCAGTTTGGCCCAGCCCAAGGAGACCCCATCTTGAGCCTTATTTCTAATGGGTCCACCTCTCATCTG  
CATCTTTCACACCTCCCAGCTTCTGCCCCAACCTTCAGCAGTGACAAGTCCCCAAGAGACTGCTGAGCAGCTTG  
GGCTGCTTTTCATTTCCACCTGTGAGGATGCCTGTGGTCATGCTCTCAGCTCCACCTGGCATGAGAAGGGATCCT  
GGCCTCTGGCATATTTCATCAAGTATGAGTTCTGGGGATGAGTCACTGTAATGATGTGAGCAGGGAGCCTTCTTCC  
CTGGGCCACCTGCAGAGAGCTTTCCCAACAACTTTGTACCTTGATTGCCTTACAAAGTTATTTGTTTACAAACAG  
CGACCATATAAAAGCCTCCTGCCCCAAAGCTTGTGGGCACATGGGCACATACAGACTCACATACAGACACACACA  
TATATGTACAGACATGTACTCTCACACACACAGGCACCAGCATAACACACGTTTTTCTAGGTACAGCTCCCAGGAA  
CAGCTAGGTGGGAAAGTCCCATCACTGAGGGAGCCTAACCATGTCCCTGAACAAAAATTGGGCACCTCATCTATT  
CTTTTCTCTTGTGTCCCTACTCATTGAAACCAAACTCTGGAAAAGGACCCAATGTACCAGTATTTATACCTCTAAT  
GAAGCACAGAGAGAGGAAGAGAGCTGCTTAAACTCACACAACAATGAACTGCAGACACAGCTGTTCTCTCCCTCT  
CTCCTTCCCAGAGCAATTTATACTTTACCCTCAGGCTGTCTCTGCGGAGAGGAGGTCATGGTCTTAGGTGTCTG  
TGCCCCAGGACAGACCCTAGGACCCTAAATCCAATAGAAAATGCATATCTTTGCTCCACTTTCAGCCAGGCTGGA  
GCAAGGTACCTTTTCTTAGGATCTTGGGAGGGAATGGATGCCCTCTCTGCATGATCTTGTGAGGCATTTAGCT  
GCCATGCACCTGTCCCCCTTTAATACTGGGCATTTTAAAGCCATCTCAAGAGGCATCTTCTACATGTTTTGTACG  
CATTAATAATAATTTCAAAGATATCTGAGAAAAGCCGATATTTGCCATTCTTCTATATCCTGGAATATATCTTGC  
ATCCTGAGTTTATAATAATAATAATATTCTACCTTGAAAAAAAAAAAAA

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**FIGURE 1096**

MAAGGPGAGSAAPVSSSTSSLPAAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLEIRQLETQADPTGRL  
DAWQGRPGASVGRLELLTKLGRDDVLLELGPSIEEDCQKYILKQQQEEAEKPLQVAVDSSVPRTAELAGITTL  
DDPLGHMPERFADFICYCPSDIQFVQEMIRQLEQTNYRLKLCVSDRDVLPGTCVWSIASSELIEKRCRMVVVSD  
DYLQSKECDFQTKFALSLSPGAHQRLIPIKYKAMKKEFPSILRFITVCDYTNFCTKSWFWTRLAKALSLP

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**FIGURE 1097**

ATGTGGTTCTGCGCGTGTGCGGACGGCTGTCTGTAACTCCGCGGTCAAGTTCCCGGACTGGTGGCTGGTCTGCAG  
GGTTGACCTGCGCAATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGGTCCGGCCGATTCCGGCTGGATGC  
CGCAGGCCGCGCCTTGCCCTGAGCGGTGCCCCGACGGCCTCGGCCGCGGACGTGGTGGTGGTGCACGGGCGGCGCA  
CGGCCATCTGCCGGGCGGGCCGCGGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACCG  
CGTTCTCAAGGACGTGAATCTGAGGCCGGAACAGCTGGGGGACATCTGTGTGCGAAATGTGCTGCAGCCTGGGG  
CCGGGGCAATCATGGCCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTCCACTGTCAATA  
GAAGTGTTCGTGCGGGCTACAGGCAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGGTCTTATGACATTGGCA  
TGGCCTGTGGGGTGGAGTCCATGTCCCTGGCTGACAGAGGGAACCCTGGAAATATTACTTCGCGCTTGATGGAGA  
AGGAGAAGGCCAGAGATTGCCTGATTCTATGGGGATAACCTCTGAGAATGTGGCTGAGCGGTTTGGCATTTCAC  
GGGAGAAGCAGGATACCTTTGCCCTGGCTTCCCAGCAGAAGGCAGCAAGAGCCAGAGCAAGGGCTGTTTCCAAG  
CTGAGATTGTGCCTGTGACCACCACGGTCCATGATGACAAGGGCACCAAGAGGAGCATCACTGTGACCCAGGATG  
AGGGTATCCGCCCCAGCACCACCATGGAGGGCTGGCCAACTGAAGCCTGCCTTCAAGAAAGATGGTTCTACCA  
CAGCTGGAACTCTAGCCAGGTGAGTGATGGGGCAGCTGCCATCCTGCTGGCCCGGAGGTCCAAGGCAGAAGAGT  
TGGGCCTTCCCATCCTTGGGGTCTGAGGTCTTATGCAGTGGTTGGGGTCCCACCTGACATCATGGGCATTGGAC  
CTGCCTATGCCATCCCAGTAGCTTTGCAAAAAGCAGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATG  
AGGCCTTTGCAAGCCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGG  
GTGCAGTGGCCTTAGGGCACCCACTGGGCTGCACTGGGGCAGCAGAGTCAACGCTGCTCAATGAGCTGAAGC  
GCCGTGGGAAGAGGGCATACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTTGAAT  
ACCTTGGGAACTGAGTGAGGTCCCAGGCTGGAGGCGCTACGCAGACAGTCCTGCTGCTCTAGCAGCAAGGCAGTA  
ACACCACAAAAGCAAAACCACATGGGAAAACCTCAGCACTGGTGGTGGTGGCAGTGGACAGATCAAGGCACCTCAA  
CTCATTGGAAAATGTGAACACTGATGACATGGTATAGGAGTGGGTGGGGTGTGAGCCACCCATCAGACCTCT  
TTAGCTGTGCAAGATAAAGCAGCCTGGGTACCCAGGCCACAAGGCCATGGTTAATTCTTAAGGCAAGGCAAT  
CCATGGATGAGAAGTGCAATGGGCATAGTAAAAGTGCATGAATTT

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**FIGURE 1098**

MQR LQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVVHGRRTAICRAGRGGFKDTPDELLSAVMTAVLKD  
VNL RPEQLGDI CVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSGLQAVASIAGGIRNGSYDIGMACGV  
ESMSLADRGNPGNITSRLMEKEKARDCLIPMGITSENV AERFGISREKQDTFALASQKAAARQSKGCFQAEIVP  
VTTTVHDDKGTKRSITVTQDEGIRPSTTMEGLAKLKPAFKKDGSTTAGNSSQVSDGAAAILLARRSKAEELGLPI  
LGV LRSYAVVGVPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFASQAAYCVEKLRLPPEKVNPLGGAVAL  
GHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTGMGAAAVFEYPGN



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**FIGURE 1100**

MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMLQAHM  
VAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDVCNHMIVGTNAKHGLRCKACKMSIHHKC  
TDGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDPVYETLRFGTSLAQRTKKGSSGSGSDSP  
HRTSTDLVEVP EEANGPGGGYDLRKRSNSVFTYPENGTD DFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQE  
NEDLEM RPGDIITLLED SNEDWWKGKIQDRIGFFPANFVQRLQONEKIFRCVRTFIGCKEQGQITLKENQICVSS  
EEEQDGFIRVLSGKKKGLIPLDVLENI

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**FIGURE 1101**

GCCGCGGGCTTCGTTTGTGAGGAAGGGGGCCTAGGCCCGGGCCTGCGGTGGTGGGGGTGCTGCGCGCCGGGGGT  
CGCTCCTGTGTCTTCCGCTCCAGCTTCGCCCCTTCCCTTGCCAGCGGGGTGGGCGCGGAGAAGACCTGCC  
GGAGCCATGGAGGACGAAGTGGTCCGCTTTGCCAAGAAGATGGACAAGATGGTGCAGAAGAAGAACGCGGCTGGA  
GCATTGGATTTGCTAAAGGAGCTTAAGAATATTCCTATGACCCTGGAATTACTGCAGTCCACAAGAATCGGAATG  
TCAGTTAATGCTATTTCGAAGCAGAGTACAGATGAGGAAGTTACATCTTTGGCAAAGTCTCTCATCAAATCCTGG  
AAAAAATTATTAGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAG  
AACAGCCCTGAGGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGA  
GATACTTATGTTTTCATCCTTTCTCGGGCACCAGCACTTCTGATTCTGTGCAGTTGAAGTGTAGGGAGATGCTT  
GCTGCAGCTCTTCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAA  
GAAGCTATATATCAAGAAATAAGGAATACAGACATGAAATACAAAATAGAGTACGAAGTAGGATATCAAATCTT  
AAAGATGCAAAAAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCTCTGACTTATTTGCTAGAATG  
ACAGCAGAGGAAATGGCTAGTGATGAGCTGAAAGAGATGTGGAAAACTTGACCAAAGAAGCCATCAGAGAGCAT  
CAGATGGCCAAGACTGGTGGGACCCAGACTGACTTGTTCACATGTGGCAAATGTAAAAAGAAGAAATTGCACTTAC  
ACACAGGTACAAACCCGTAGTGCTGATGAACCAAGTGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGG  
AAGTTCTGTTGAGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAAC  
TAGGCCAAGCAACTAGTTTTCTGCAAATCAAATTTTTAAAGCAACTTGAGTTAGACTTTGTTTTTGACCTAACA  
TCCCTTCTTAAATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTGTATGGTACCTGTTTCAA  
AACATATTTTTCTGTTTTTATAAGTAAGTTGATATTAATTAACTCTTGGCAATATTTCTTCTTTCTTAAAGGA  
AAATACACCTTAACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATTCTGTTACTCTCTGTTATTAAT  
ACATAAATGAAATACTTTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAAGGTAATATAA  
TTTTAGGTTTACCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTTGAGG  
TAGCTTATGAATTTGATTTTAATTATTATGTTTACAAAGCTTGAATATTAGATATTATTTTGCATCTGTAATAA  
CCGTGATCATCATCTCTTGTAATTTCTTGATCATGTATATTACTTGTCTTAAATAGATTTTTTGGAAACAAGACTT  
TATTGAGATCAGTTTGGTTTTCTGTAAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACA  
CTGTTGTAGTTTAGAAGGCTTTTTCATAAATCCCTCATAGGCAAAGATGAGAACTTCCCCTATTTTTTCCCCT  
CTTAGGAAGACATACTGGAAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTTCATGACTAG  
ATTTTGATTTCGAAATCTATACTGACCAAGGATTAATCTTAAGGACTGTATAATTCATTAAAGCGGTGGTCTTTC  
CATGTGGAGACTGATAGAAAATAATTTGTCCCAAGTCTTATTTGCTGACTTTTTCTGTCAATGAGTGAGATTGT  
TGAACAACTGAATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTA  
AAGTGTGTACCATTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTC  
TAGCATACTTTAAAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAA  
AGACCTCAGTACATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTTTGTGTAAT  
ACAGAAAGCAGCATTTTTAAATGTCCATGTTAAGAATTGGCCCACTGGTACCGACTCACCTCTATTTTGTGAGTT  
CATAGTTGAAGATTTGTTTTATTTCAAAAACAAAGTACATTTTGAATAATGTTTCAGAATAAAAATAATCTCA  
CTTTTAAATTAAGTGATCCATTTTAAAATTTGTAATTCATAAAGTTTTTTTTTGTGTTAAACAT

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**FIGURE 1102**

MEDEVVRFakkMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDEEVTSLAKSLIKSWKK  
LLDGPSTEKDLDEKKKEPAITSQNSPEAREESTSSGNVSNRKDETNARDTYVSSFPRAPSTSDSVQLKCREMLAA  
ALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFARMTA  
EEMASDELKEMWKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPVTTFVVCNECGNRWKF  
C



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**FIGURE 1103**

AGGTCCCACCGCTCCTACCAGCAGCCTGACCCAGGATGGCTCTACTCCCCAGCCTTCAATCCCTGGACCTGGGTT  
TGGAATTAGGAGACTTCCGTCGAGGGTCAATTGTGCGGGATCCTGGCCATTCCATACAAAATCTCACGACTGGCA  
AAAGAGAGGGGGACCCCTCGAGCAGAGGTCAGATATCACAGGGGACCCGGGTTTTTCCACCCCGCCCTCATTCCC  
AGCGTGGGGTCTCAGATGAGTGGGAAAACCTCAAATATGGATCAGAAATCATGCAAGTTTCGGACTCTGGCCTTAG  
GAGAAAACCTCTTAACGGAGATGGAATGTACGAGGGATCCAGCCACCCCATCCACTCATTGACTGGATGAAGTT  
TTGCGATGGGAAAATCCAGGTCAGGAGTTACGGACGACCTGCACCGCCCGGAGCTCCTTCTGGGTCCGGAGTTTG  
GGAAAAGTGC GG GTTAGGGGTAAAGGTCACGGAAGAACTTCCCCACTCCCCCGCCTCTTTTCGTCCGCGGGCCG  
GTTCAAGAGGTATTCCGAACCAGGGGAGGAGCGGCGGCCATCGTACCTGAGCAGGAGCCAGCGCCTGCTGGAG  
CTGCTGCTGCTCCTCGCTGATCTTTTGCTTCAGTTTCTTGAACATGGCGCAGCGTACGTACGGTCTCTGAGTGTCA  
ACGAAACCTGAAGGGCGAGAGCCCGGGGAGTCCCGGCCGCGACGGCTACGGCGACTTCTTTACACCAGGGACAGC  
GGGGGCCGGGCTCGCCGTCTCCTCCTTGAGGCTGTGGGCAAGTCCGGACACTCGTCTTGAGGGTGTGGCGCTCG  
CCGCCGCCGCTCTCTTTCTTCCGGGTGCCACTGGCTGGCCTCGGCCCCCATCCAGCCCCGGGAGCCGCGGCGG  
CGACGACAACGGCAGCAGGTGAACTGTGCGCCAAGGGCGCTTGCGCGGCCTACGTGGAGCTCACAGAGGCTAACT  
ACGGAGCACC GGATGGGACAAGCACAATGTGCGGTCCCGCACATGCGCGCTCGGCCGGTCTGCTTCCGAACCTGCT  
GCACTGGAGGACGCAAGGTTCCGTTCTGCTGATTTTCGTTGCGTGC GGAGACCGCGTCTCGGGCTCAGAACC GGA  
GCGTGGGCTAGTCTGAACACTACCCTGACTCTCACCTGGGCTTTGGCCCTGCGAAATCAGACGGGGAGAGTGTCTG  
CTTCTATCGATGGCAGCAGGGCCGACGGGCCCCACCGCAAAGAACACAGGGATGAGCGTCAAGGATGGGAGAAGGG  
GAGATCCAGAGAACCTGACGCGGGCCCTAATTGATAGTGTCTTTTCTTTAGTAGCTGTAGCTAGGATTCTGTGT  
CTTCGGTGCCAGAGGGGGCCGCTTCCCTTCCCTGAACTCTTCCAGCGTCCGGGAAGTCCCTGATACCAGGCGCCAG  
GGGTCCAAATGTTTTATGCCAATACTGTAAAACCTCAAGTGTGTTGGACACCTGCTTTATTCTTTTCTTACCGAA  
ATCGTGTATTTACGAATTCATTCAAAAACCTTTATCAGGCCTTGGAGATGTTAAAAGAATTTACAGCCTAGTGG  
AAGACACAGATTCCTAATTAGTCCAAATTTACTCCTAACACCTGCAATCATCCTACAAGATCTTAATGTTTATGT  
GCCTCATTATCTAAAACCTGAACTTTGGCTGCCTGTGAATCCTCAGGTCCATTTAGCAACCCACTTTTGCAT  
GCTGTACCTTTGATATCATCTGAAACTGCTTACATTGTCTCCGGTATCAGAATCTAACAGTATATGCTGATCTCC  
ACGTTCTAGCAAATTTTGTGTTACCAGCAATAATAGGAGCAACCTGCTCTCGAGAGTCCATATTCTGATCCCTAAA  
TGTATTAGAGCCACAGTGGGGCTGGAACACTGCCTTAACACCTGGGCTAAGTCTCTTATATCTCGTAGTGAAC  
ACCTTATGTATGTAAGGTGTCCCCAGCCCCCGGGCCACAAACGGGTACCAGCCCATGGCCTGTTAGGAACGGGGC  
TACACAGCAAGAAGTGAATCTCTGGCAAGCCAGGGAAGCTTAATCTGTATTTACAGCTGCTCCCCATGGTTTACA  
TTATCGTCTGAGCTCCACCTCCTGTGATCAGCTGTGGCATGAGATTCTCATAGGAGCTGGAACACTACTGTGAAC  
TAGGCATGAGAGGGATCTAGGTTATGCTCCTTATGAGAATCTAATGCCTGATGATCTGTCACTGTCTCCCATCAC  
CCCCAGATGGGACCATCTAGTTGCAGGAAAATAAGCTCAGGGCTCCACCGATTCTACATTATGGTGAGTTGTGT  
AATTGTTTCATTATATATTACAATGCAATAATAATAGAAATAAAGGGCACATAAATAT

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**FIGURE 1104**

MALLPSLQSLDLGLELGDFRRGSIVRDPGHSIQNLTTGKREGDPSSRGQISQGTRVFPPRPHSQRGVSEWENLK  
YGSEIMQVRTLALGENS

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**FIGURE 1105**

CTCTTCCGGTTCTAGGTGCTTCGGGAGCCGCGGCTTAAGGTGTAGACATGGCGAAGTCCAAGAACCACACCACAC  
ACAACCAGTCCCGAAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG  
TGGACCCCAAGTTCCTGAGGAACATGCACTTTGCCAAGAAGCACACAAGAAGGGCCTAAAGAAGATGCAGGCCA  
ACAATGCCAAGGCCATGAGTGACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA  
TCCCAAGGGTGTGAGCCGCAAGCTCGATCGACTTGCCTACATTGCCCATCCCAAGCTTGGAAGCGTGCTCGTG  
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGATCAAACCAAGGCCCAGGCTGCAG  
CTCCACCTTCAGTTCAGCTCAGGCTCCCAAGGTGCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGC  
CAACATGAGGACAGAAGGACTGGTGTGACCCCTACCCCGCCCCCTGGGCTACCATCTGCATGGGGCTGGTCCTC  
CTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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**FIGURE 1106**

ATTGCCACATGGTCCACATTGCATGCAAGATTGCTGAGCTGAAGGAAAAGATTGATTGCCGTTCTGGTAAAAAGC  
CAGAAGATTGCCCTAAATTCTTGAAGTCTGATGATGCTGCCATCATTGACATGGTTCCTGGCAAGCCCATGTGTG  
TTGAGAGCTTCTCAGAACTGTTTGTTTCAATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAA  
TGCATCATAAAACCTTCAGATGGAAAGGAGAATGTTTTGTGGACCACTTGGTTTTCTTTTTTGCATCTGGCAGT  
TTTTAAGTTATTAGTTTTTTAAATCAGTACTTTTTAATGGAA

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**FIGURE 1107**

MVHIACKIAELKEKIDCRSGKKPEDCPKFLKSDDAAIIDMVPKGPMCVESFSELFVSIGHLISLVVKDWLMITMHH  
KTRWKGEFCFVDHFGFLFCIWQF

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**FIGURE 1108**

TGCCTGTCTTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGA  
AACTTTCACAATGTCGGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGG  
AACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTA  
TATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCAATTGTTGCCATTGAAAACCCTGC  
TGATGTCAGTGTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCAC  
TCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCT  
TGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCT  
GTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGG  
TTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGAAACACCCATGGGAGGT  
CATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGT  
GACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGA  
CTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTACGAATTCCTACTGAAGACTGGAGCGCTCAGCCTGC  
CACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAAGC  
TGTTCTTGATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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**FIGURE 1109**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPADHQPLTEASYVNLPTIALCNT  
DSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE  
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQFATEDWSAAPTAAQATEWVGATTDWS





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**FIGURE 1111**

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMLTDFILKFPHSAHQKYVRO  
AWQKADINTKWAATRWAKKIEAREERKAKMTDFDRFKVMKAKKMRNRIKNEVKKLQKAALLKASPKKAPGPKGTA  
AAAAAAAAAAKVPAKKITAASKKAPAQKVPAQKATGQKAAPAPKAQKGQKAPAQKAPAPKASGKKA

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**FIGURE 1112**

GACTCCTAGGGGCTTGCAGACTAGTGGGAGAGAAAGAACATCGCAGCAGCCAGGCAGAACCCAGGACAGGTGAGGT  
GCAGGCTGGCTTTCTCTCGCAGCGCGGTGTGGAGTCTGTCTGCCTCAGGGCTTTTCGGAGCCTGGATCCTCA  
AGGAACAAGTAGACCTGGCCGCGGGGAGTGGGGAGGGAAGGGGTGTCTATTGGGCAACAGGGCGGGGCAAAGCCC  
TGAATAAAGGGGCGCAGGGCAGGCGCAAGTGGCAGAGCCTTCGTTTGCCAAGTCGCCTCCAGACCGCAGACATGA  
AACTTGTCTTCCTCGTCTGTTCCTCGGGGCCCTCGGACTGTGTCTGGCTGGCCGTAGGAGGAGTGTTCAGT  
GGTGCGCCGTATCCCAACCCGAGGCCACAAAATGCTTCCAATGGCAAAGGAATATGAGAAAAGTGCCTGGCCCTC  
CTGTGAGCTGCATAAAGAGAGACTCCCCATCCAGTGTATCCAGGCCATTGCGGAAAACAGGGCCGATGCTGTGA  
CCCTTGATGGTGGTTTCATATACGAGGCAGGCCTGGCCCCCTACAACTGCGACCTGTAGCGGCGGAAGTCTACG  
GGACCGAAAGACAGCCACGAACCTCACTATTATGCCGTGGCTGTGGTGAAGAAGGGCGGCAGCTTTCAGCTGAACG  
AACTGCAAGGTCTGAAGTCCTGCCACACAGGCCTTCGCAGGACCGCTGGATGGAATGTCCCTATAGGGACACTTC  
GTCCATTCTTGAATTGGACGGGTCCACCTGAGCCCATGAGGCAGCTGTGGCCAGGTTCTTCTCAGCCAGCTGTG  
TTCCCGGTGCAGATAAAGGACAGTTCCCCAACCTGTGTGCGCTGTGTGCGGGACAGGGGAAAACAAATGTGCCT  
TCTCCTCCCAGGAACCGTACTTCAGCTACTCTGGTGCCTTCAAGTGTCTGAGAGACGGGGCTGGAGACGTGGCTT  
TTATCAGAGAGAGCACAGTGTGTTGAGGACCTGTCAGACGAGGCTGAAAGGGACGAGTATGAGTTACTCTGCCCAG  
ACAACACTCGGAAGCCAGTGGACAAGTTCAAAGACTGCCATCTGGCCCCGGTCCCTTCTCATGCCGTGTGGCAC  
GAAGTGTGAATGGCAAGGAGGATGCCATCTGGAATCTTCTCCGCCAGGCACAGGAAAAGTTTGGAAGGACAAGT  
CACCGAAATTCCAGCTCTTTGGCTCCCCTAGTGGGCAGAAAGATCTGCTGTTCAAGGACTCTGCCATTGGGTTTT  
CGAGGGTGCCCCCGAGGATAGATTCTGGGCTGTACCTTGGCTCCGGCTACTTCACTGCCATCCAGAACTTGAGGA  
AAAGTGAGGAGGAAGTGGCTGCCCCGGCGTGCGCGGTCTGTGTGGTGTGCGGTGGGCGAGCAGGAGCTGCGCAAGT  
GTAACCAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGCTCCTCGGCCTCCACCACAGAGGACTGCATCGCCC  
TGGTGTCTGAAAGGAGAAGCTGATGCCATGAGTTTGGATGGAGGATATGTGTACACTGCAGGCAAATGTGGTTTGG  
TGCCTGTCTTGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGACCTGTGG  
AAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGAACCTGTGTGAAAGGCAAGAAGT  
CCTGCCACACCGCCGTGGACAGGACTGCAGGCTGGAATATCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCT  
GCAAATTTGATGAATATTTTCAGTCAAAGCTGTGCCCTGGGTCTGACCCGAGATCTAATCTCTGTGCTCTGTGTA  
TTGGCGACGAGCAGGGTGAGAATAAGTGGCTGCCCAACAGCAACGAGAGATACTACGGCTACACTGGGGCTTTCC  
GGTGCCTGGCTGAGAATGCTGGAGACGTTGCATTTGTGAAAGATGTCACTGTCTTGAGAACACTGATGGAAATA  
ACAATGACGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCTCGATGGCAAACGGAAGCCTG  
TGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGAATCATGCCGTGGTGTCTCGGATGGATAAGGTGGAAC  
GCCTGAAACAGGTGTTGCTCCACCAACAGGCTAAATTTGGGAGAAATGGATCTGACTGCCCGGACAAGTTTTGCT  
TATTCAGTCTGAAACCAAAAACCTTCTGTTCAATGACAACACTGAGTGTCTGGCCAGACTCCATGGCAAAAACAA  
CATATGAAAAATATTTGGGACCACAGTATGTGCGAGGCATTACTAATCTGAAAAAGTGCTCAACCTCCCCCTCC  
TGGAAGCCTGTGAATTCCTCAGGAAGTAAACCAGGAAGATGGCCAGCTCCCCAAGAAAGCCTCAGCCATTCA  
CTGCCCCCAGCTCTTCTCCCCAGGTGTGTTGGGGCCTTGGCCTCCCCTGCTGAAGGTGGGGATTGCCCATCCATC  
TGCTTACAATTCCCTGCTGTGCTCTTAGCAAGAAGTAAAATGAGAAATTTTGTGATATTC

GCTTCTAAACAACCTACCCTTCTCCCATTTTCTGTGGTCCAACCTACCCTCGGCGATCCCAGGCTTGGCGGGGGC  
ACCGCCTGGCCTCTCCCGTTCCCTTTAGGCTGCCGCCGCTGCCTGCCGCCATGGCAGAGTTGGGCCTAAATGAGCA  
CCATCAAAATGAAGTTATTAATTATATGCGTTTTGCTCGTTCAAAGAGAGGCTTGAGACTCAAACTGTAGATTCT  
CTGCTTCCAAGACCTCAAGGAGAGCAGGCTGGTGGAGGACACCTTACCATAGATGAAGTCTCTGAAGTCCCTCAA  
TGGATTACAAGCTGTGGTTCATAGTGAGGTGGAATCTGAGCTCATCAACACTGCCTATACCAATGTGTTACTTCT  
GCGACAGCTGTTTGCACAAGCTGAGAAGTGGTATCTTAAGCTACAGACAGACATCTCTGAACTTGAAAACCGAGA  
ATTATTAGAACAAGTTGCAGAATTTGAAAAAGCAGAGATTACATCTTCAAACAAAAAGCCCATCTTAGATGTCAC  
AAAGCCAAAACTTGCTCCACTTAATGAAGGTGGAACAGCAGAACTCCTAAACAAGGAAATTTTAAGACTTCAAGA  
AGAGAATGAGAAATTGAAGTCAAGGTTGAAGACCATTGAAATACAGGCTACAAATGCACTGGATGAAAAGTCAAA  
ACTAGAAAAAGCACTGCAAGATTTACAGCTTGATCAAGGAAATCAAAGGATTTTATAAAGGCCCAAGACTTAAG  
TAACTTAGAAAAACACTGTCTCGCTGCCTTAAAGAGTGAGTTTCAGAAGACACTTAATGACAAGACAGAAAACCGAA  
GTCAGTGGAGGAGAATCTGGCGACAGCCAAGCAGATCTACTCAGGGTTCAGGAGCAGCTGCACATGGCTGAAAA  
GGAATTAGAAAAAGAAATTCAGCAAACAGCAGCTTATCGAAACATGAAAGAGATTCTTACCAAGAAGAATGACCA  
AATCAAAGATCTGAGGAAAAGACTGGCACAATATGAACCTGAAGATTAAACTGAAGATTTCTCTGGAAGCTAC  
CACATGCAAAACATACAGCAGTCTCACCTCAGGCATGTATTTTGAAGGCATTTTGTGCATATCCCTCTCCTTAT  
TTTTCTAATATTTAGACTTTTGAATATTTAGAACTAGAGTTCCTATTTTCAGCTAGTTGAAAACAGAGAAAACCTA  
GTGATTCTGTCTGGTCACTCCACACACCTCTCTACTGAGTGCTCCAGAGTCTTAGCTCACATGCACTGAGAATTC  
TTTACAGCAAAAGAGATTTTLAGAGTGGGAAGAAGAGGCTTATCCTTCTGCATTAGTATAAAGAGTCTGTATT  
TTTAATAAATGTTAAATAAGCTAACAATGTTTGTACTTATGCATTCCCCATGGGTAAAAATAAATAATAGCATTG  
TTAAAGATAGTTATTACCAAAAAAGAGAGTTATTACAAATAAATATGCTCTTTATTTTTAAAAATGAAATCTT  
AATTCAATTTACTCTATTTGATGATAAACTATAAATTCATTGAAAATGTGAATTCATTATGGGTAGCCTTTTTTAC  
CAATTATAAGGAAAATTTACAGCAGTGAACATGAACATTCACTTAGCTTCCTCAGTCTCTCCATCTTAAAGATCA  
TTTATCAGAGGAGGTTTCAGCATTTTTTGACGATAACTTTTCATGAGTCTGTATTACTAATGGATAAGTCAAATC  
CATCTGCACCTTCTACAGTTTAGAAAAGTATCTGGACTCAGAATAAATGTAATATTTATACTTGTTTTCCAGAATGT  
TATTTTACATTTTATGTTCAATAAGAACACTTTTTAAAGACGTATATTCAACATAAAATCAGCTATCAGACTTC  
AGATTAGACTTTATTTATGTGGGTCTATAATAATTGTATTTTCAAGAGGTTTTACTATATTTGTATTGGCCTGG  
TTTTCTCAGACGATTTTGGACAAATCATTAGAACTGGGCATCATATCCACAGTTATGTAAGGCAGTGATATACT  
ATAAGGATAAAACAAAGTCAAGTCCATAAAGCAATAATCCCTCAGAAGGAAAGTCCTTACTTTTACATATTAATA  
TTTAGTAATTTTTCTGCTTCTAAAAGTGAGAGTATCACACCCTAAATGAACACTGTCTACTAAGAGACATCATT  
CCATTTCCACAAATGAAGATTTTATCCAAGAAACGAGTTTACTGATTGGAGCATAGGGCTTGTTGTTATTTTTA  
TTCAAGCTTTTAGTAATAGCCTTGAATTTATATTTTCTTATAGGCTTTTTGTTAAATAGTGAAGGAACAAAT  
GTTAAAGGGTAAGATAAATTTCCCTGCAAAAGGACACAGAAGGCAGTCTTAAGAAGATGAATGGATGAGAGAAGGG  
AGAGAATAAAATGCAATAACGAGCCAGCATTACTATGTATTTCTCCTCACCTGTCTCTCCATATTTAGGTCAC  
TTACCAGTTTTCTGTGCCCTTTTGAGCTTTTGTGAGGGCTTCATTCTCACCCGTGATTTCTTTAGCCCTAAAT  
GACACTCTCTCCAAAAATCCATTGCTGTGTGGACCAAGATGTTCTATGTAATTCAGAAGCAGAACTCTTGG  
CTAAAGGGCTAGTGTGGCCTTCAGAAACCATTCAATTATTTCTCCCTACACCTTTGTCTAGTTTGAAACCAGTGA  
GAAAAAAGGTATGTTGATAAGAAACCTATATTGCTAGGTAGAATTTGTACTTGTTTTCTTGGTAGCAGTTTTGA  
AATATTCTGTACAGTACGTTTCTATTGTTTAAATAATAAATTCAAAAATATTTCTAAAACCTTAAACCAACTATG  
CCAAGCATTAAAGATAAAACAAATATGATGTTCTTTGACGTAAATCAACGTGATGATTCTTTCACATGTAAACACAT  
TTTAGTGTCTCTGGTTTTGTCATTTTTGTTGTTGTTGTTGTTGTTGTTGTTATTTACTCTATACCCTTTAGCAAAATAC  
AGTTTTAAATTTTTTATTGTTTTTAGTAGTTTTCCCAACTTTAAGACTTATCTAATTTAACTGAGAAAGAAAGCCTT  
TTTCATATATATATATATTGGATTTCTAAGGATGGTGGTTTTGAGCCTTGATTAGACTTTTGATGTGCTAAGCCAG  
ACAGGCAGTCTGTACATTGATGGCCATCACAATGCAGCTTTGGTTAATTTAATTCAGGCCTGCTGCTGAGTTAT  
GCACAGACTTTTTGTTGACCAAAATAAAATATAAAGGGTTTTCTTCTGTTTGACATTTGTGTTTCATTTTTCTCT  
TTATGTATTACATTTTAACTATATTAAATAAATGTTTAAATGATAATTTGCTTATGCTTATAAAACTCAGCAT  
AAGAAAAAT

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**FIGURE 1114**

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDSQDLKESRLVEDTFTIDEVSEVLNGLQAVVHSEVESELIN  
TAYTNVLLLRQLFAQAEKWYLKLQTDISELENRELLEQVAEFKAEITSSNKKPILDVTKPKLAPLNEGGTAELL  
NKEILRLQEENEKLSRLKTIEIQATNALDEKSKLEKALQDLQDQGNQKDFIKAQDLSNLENTVAALKSEFQKT  
LNDKTENQKSLEENLATAKHDLLRVQEQHLHMAEKELEKKFQQTAAAYRNMKEILTKKNDQIKDLRKRLAQYEPED

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**FIGURE 1115**

AGATGACGTGCGGCTCGTGGGGCAGCTCGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACAT  
CGTG CATGGCGTCCAGGAAGACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTCGAAGTGGAAC  
TGATGTGGTGTCCAACACTAGTGGGTCCGCCAGGGTCAAGCTGGGTACACAGACATCTTGGTGGGAGTGAAAGC  
AGAAATGGGGACGCCGAAGCTGGAGAAACCAAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTT CAGCCAGTGC  
TACCCCTGAATTTGAAGGTAGAGGAGGTGATGACCTTGGCACCGAGATCGCTAACACCCCTCTATCGGATATTTAA  
CAATAAAAGCAGTGTGCGACTTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTCTCTATGTGGATGT  
GCTGCTTCTGGAATGTGGTGGAAATTTGTTTGATGCCATTTCCATTGCTGTAAAGGCTGCTCTCTTCAATACAAG  
GATACCAAGGGTTCGAGTTTGGAGGATGAAGAGGGGTGCAAGGACATTGAATTGTCAGATGACCCTTATGACTG  
CATACGACTAAGTGTGGAGAATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGC  
TACTCTTCAGGAGGAGGCCTGCTCGCTGGCCAGCTTGCTGGTGTGCGGTGACCAGCAAGGGAGTTGTGACGTGCAT  
GAGGAAAGTGGGGAAGGGCAGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAA  
GGTACTGCATGCCTCCTTGCAGAGTGTGTGTCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATT  
CCTGGGATGATTTGCACATCAACTGCTCAACTGTGGATTGTTTTTACTTTTCTTTTAAACCGGTTTCGTATATA  
TTTTTCTTCGCTGTTACGAATTTACAGCAGCATTGTACATGTAAAATTAAAGGCTATTTTCTGGTCTGGTT

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**FIGURE 1116**

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVG VKAEMGTPKLEKPN  
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD  
AISI AVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS  
LLVSVTSKGVVTCMRKVGKSLDPESIFEMMETGKRVGKVLHASLQSVVHKEESLGPKRQKVGFLG

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**FIGURE 1117**

CACCGTGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGATAAAGCCAAGGTGAAGGATGAACCACAGAGAAG  
ATCCATGAGGTTTTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAGAAGGG  
AGAGAAGATACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGGAATAACCCTGCAGAAAACGGAGA  
TGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGGTGCCAAGTGAAGCATGTGCATTTTTTATAACTG  
TGTACTTTTGATGACTGTACAGCTTGAAATACTATTTTTATCAAGTTTTATAAAAAATGCAGAATTTTGTCTTACT  
TTTTTTTTTAAAGCTATGCTATTAGCACACAGAACACTTCAGTGTTGTTTTAGGGAGAAGGGGCATATGTCACTA  
ATAGAATGTCCCAAAGCTGGATTGATGTGGGGAAAACACCTTTCCCTTCTAGCTTTGAGAGACTTCCTCTTGGC  
TCCCAGGAGGAGGGATTCCCTGACTTTGACACAGATGGTCACCTTGGCACAAAAGCCTTGTAGGATGGAAAAACA  
AATTTGTTTTTATGTCCTCTTCTCCCTTTCCATCCTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTT  
GGGACCTGACCCCCAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCA  
CCTGTCAAACAGCGGTGGTTCCATTTCTAGACTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCC  
TGAAACTCAGGGTCGGCTTGTGAAAAGCTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACT  
TTCCCTGTTTCAAGCATCAGACGAAAACCTTCATTGGGTTTTATAGTGGCTTTTCAATTTTTGGTAGTCAATTGAA  
GAAGGGAGTTTTAAATTTGTTGTATACTGTTTCATGATTGTCTGCCCATGTCTGCTGAAATACCATGATTGTTT  
ATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

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**FIGURE 1118**

VPKRKAEGDAKGDKAKVKDEPQRRSMRFSAPAPPKPEPKPKKAPAKKGEKIPKGKKGKADAGEEGNNPAENGDA  
KTDQAQKAEGAGGAK



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**FIGURE 1119**

AAGCCTCTCGGTCTGTGGCAGCAGCGTTGGCCCCGGCCCCGGGAGCGGAGAGCGAGGGGAGGCGGAGACGGAGGAA  
GGTCTGAGGAGCAGCTTCAGTCCCCGCCGAGCCGCCACCGCAGGTCGAGGACGGTCGGACTCCCCGGGCGGGAGG  
AGCCTGTTCCCTGAGGGTATTTGAAGTATACCATACAACTGTTTTGAAAATCCAGCGTGGACAATGGCTACTCA  
AGCTGATTTGATGGAGTTGGACATGGCCATGGAACCAGACAGAAAAGCGGCTGTTAGTCACTGGCAGCAACAGTC  
TTACCTGGACTCTGGAATCCATTCTGGTGCCACTACCACAGCTCCTTCTCTGAGTGGTAAAGGCAATCCTGAGGA  
AGAGGATGTGGATACCTCCCAAGTCCTGTATGAGTGGGAACAGGGATTTTCTCAGTCCTTCACTCAAGAACAAGT  
AGCTGATATTGATGGACAGTATGCAATGACTCGAGCTCAGAGGGTACGAGCTGCTATGTTCCCTGAGACATTAGA  
TGAGGGCATGCAGATCCCATCTACACAGTTTGTATGCTGCTCATCCCACTAATGTCCAGCGTTTGGCTGAACCATC  
ACAGATGCTGAAACATGCAGTTGTAAACTTGATTAACTATCAAGATGATGCAGAACTTGCCACACGTGCAATCCC  
TGAAGTGACAAAAGCTGCTAAATGACGAGGACCAGGTGGTGGTTAATAAGGCTGCAGTTATGGTCCATCAGCTTTC  
TAAAAAGGAAGCTTCCAGACACGCTATCATGCGTTCTCCTCAGATGGTGTCTGCTATTGTACGTACCATGCAGAA  
TACAAATGATGTAGAAACAGCTCGTTGTACCGCTGGGACCTTGCATAACCTTTCCCATCATCGTGAGGGCTTACT  
GGCCATCTTTAAGTCTGGAGGCATTCTGCCCTGGTGAAAATGCTTGGTTCACCAAGTGGATTCTGTGTTGTTTTA  
TGCCATTACAACCTCTCCACAACCTTTTATTACATCAAGAAGGAGCTAAAATGGCAGTGCCTTTAGCTGGTGGGCT  
GCAGAAAATGGTTGCCTTGCTCAACAAAACAAAATGTTAAATTCTTGGCTATTACGACAGACTGCCTTCAAATTTT  
AGCTTATGGCAACCAAGAAAGCAAGCTCATCACTAGGCTAGTGGTGGACCCCAAGCTTTAGTAAATATAATGAG  
GACCTATACTTACGAAAACTACTGTGGACCACAAGCAGAGTGCTGAAGGTGCTATCTGTCTGCTCTAGTAATAA  
GCCGGCTATTGTAGAAGCTGGTGAATGCAAGCTTTAGGACTTCACCTGACAGATCCAAGTCAACGTCTTGTTCA  
GAACGTGCTTTTGGACTCTCAGGAATCTTTCAGATGCTGCAACTAAACAGGAAGGGATGGAAGGTCTCCTTGGGAC  
TCTTGTTTCAGCTTCTGGGTTTCAGATGATATAAATGTGGTCACTGTGCAGCTGGAATTCTTTCTAACCTCACTTG  
CAATAATTATAAGAACAAGATGATGGTCTGCCAAGTGGGTGGTATAGAGGCTCTTGTCGCTACTGTCTTCGGGC  
TGGTGACAGGGAAGACATCACTGAGCCTGCCATCTGTGCTCTTCGTCATCTGACCAGCCGACACCAAGAAGCAGA  
GATGGCCCAAGATGCAGTTGCGCTTCACTATGGACTACCAGTTGTGGTTAAGCTCTTACACCCACCATCCCACTG  
GCCTCTGATAAAGGCTACTGTTGGATTGATTGAAATCTTGCCCTTTGTCCCGCAAATCATGCACCTTTGCGTGA  
GCAGGGTGCCATTCCACGACTAGTTTCAAGTTGCTTGTCTGTCACATCAGGATACCCAGCGCCGTACGTCCATGGG  
TGGGACACAGCAGCAATTTGTGGAGGGGGTCCGCATGGAAGAAATAGTTGAAGGTTGTACCGGAGCCCTTCACAT  
CCTAGCTCGGGATGTTTACAACCGAATTGTTATCAGAGGACTAAATACCATTCCATTGTTTGTGCACTGCTTTA  
TTCTCCCATTGAAAACATCCAAAGAGTAGCTGCAGGGGTCTCTGTGAAGTTGCTCAGGACAAGGAAGCTGCAGA  
AGCTATTGAAGCTGAGGGAGCCACAGCTCCTCTGACAGAGTTACTTCACTCTAGGAATGAAGGTGTGGCGACATA  
TGCAGCTGCTGTTTTGTTCCGAATGTCTGAGGACAAGCCACAAGATTACAAGAAACGGCTTTCAGTTGAGCTGAC  
CAGCTCTCTCTTTCAGAACAGAGCCAATGGCTTGAATGAGACTGCTGATCTTGGACTTGATATTGGTGCCAGGG  
AGAACCCCTTGGATATCGCCAGGATGATCCTAGCTATCGTTCTTTTCACTCTGGTGGATATGGCCAGGATGCCTT  
GGGTATGGACCCCATGATGGAACATGAGATGGGTGGCCACCACCTGGTGTGCTGACTATCCAGTTGATGGGCTGCC  
AGATCTGGGGCATGCCAGGACCTCATGGATGGGCTGCCTCCAGGTGACAGCAATCAGCTGGCCTGGTTTGATAC  
TGACCTGTAAATCATCCTTTAGCTGTATTGTCTGAACTTGCAATTGTGATTGGCCTGTAGAGTTGCTGAGAGGGCT  
CGAGGGGTGGGCTGGTATCTCAGAAAGTGCTGACACACTAACCAAGCTGAGTTTCCATGGAACAATTGAAGT  
AAACTTTTTGTTCTGGTCCTTTTTTGGTCGAGGAGTAACAATACAAATGGATTTTGGGAGTGACTCAAGAAGTGAA  
GAATGCACAAGAATGGATCACAAGATGGAATTTATCAAACCTAGCCTTGCTTGTTAAATTTTTTTTTTTTTTTT  
TTTAAGAATATCTGTAATGGTACTGACTTTGCTTGCTTTGAAGTAGCTCTTTTTTTTTTTTTTTTTTTTTTTT  
CAGTAAGTGTTTTTTAAGTCTCTCGTAGTGTTAAGTTATAGTGAATACTGCTACAGCAATTTCTAATTTTTTAAGA  
ATTGAGTAATGGTGTAGAACATAATTCTAATCACTCTAATTAATTGTAATCTGAATAAAGTGTAACAATTGTG  
TAGCCTTTTTGTATAAAATAGACAAATAGAAAATGGTCCAATTAGTTTCCTTTTTTAATATGCTTAAATAAGCAG  
GTGGATCTATTTGATGTTTTGATCAAAAATATTTGGGATATGTATGGGTAGGGTAAATCAGTAAGAGGTGTTA  
TTTGAACCTTGTTTTGGACAGTTTACCAGTTGCCTTTTATCCCAAAGTTGTTGTAACCTGCTGTGATACGATGC  
TTCAAGAGAAAATGCGGTTATAAAAAATGGTTTCAAGATTAACCTTTTAATTCATT

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**FIGURE 1120**

GGGACTGCGAGCCAGGGACTCGGGCCGCGGGGCGGGAAGAAGTGGGGCAGCGCTTGGCCAGGCCGAAAGGACTTT  
GGGGGTGGGGGCTGGGAGTCCGTGTCTCGAATGAGGGAGGAGAGGTGGAGTTGCCGGGGCTCAGGCCCGGCCTCG  
AGCATGGGCGGATGAGAGGAGTCGGGAGCCGAGGCCTAGGGTCCTTCGGGTGAGGGGAGACGGAGCCAGCGAGGA  
GATGGAGCAGAAGCTTGTGGAGGAGATTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTC  
ATATGAGGAAGATCAGGGATCAAACTCATTGAAAAGCTAAAGAGGCACCATTTCGTACCCGTTGGAATAGCGGG  
TTTTGCAGCAATTGTTGCATATGGATTATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTGAT  
CCACATGCGTGTGGCAGCCCAAGGCTTGTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGA  
ATTCTGGGCCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTATTGTTGGAATAAACTAATTTGTATGGGT  
TTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCCTGACGGCTTGATTTGCTTGGTGACCGAATTACTA  
GTGACTAGTTTACTAACTAGGTCAATTCAAGGAAGTCAAGTTAACTTAAACATGTCACCTAAATGCACCTTGATGGT  
GTTGAAATGTCCACCTTCTTAAATTTTAAAGATGAACTTAGTTCTAAAGAAGATAACAGGCCAATCCTGAAGGTA  
CTCCCTGTTTGCTGCAGAATGTCAGAT

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**FIGURE 1121**

TGGTGCTGACCAGCCACTTACCCACAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTT  
GCACGCCTGGACACTAACTCACCTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTTGTC  
AGTGATGGTGTACCCCTGGTGCTAGCCCTGGTCCCCACCGGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCA  
GACCTGTTGGTGACTGTGAGTGCCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGC  
AACTACTTCAGCTTCAGCAAAGACCCCAACATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTG  
CCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCTATTACAGCGGTGGCCACTGG  
GATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTA  
ACCTGCCTTGCACTGGACACCTGTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGG  
CTCCTGCATCAGGTGTGCCTCGTGGGCAGCTCTGTGGGGCCCCCGTAGCCAGACCTGCAGCCCATCCGTCCCTC  
AGTGGCCTTCCAGTCCTGTCTCCTCTAGTC

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**FIGURE 1122A**

AGTTGCAGCGGCCGGGGAAGATGGTGGAGGACGGCGCGGAGGAGCTGGAGGATCTGGTGCACCTTCTCCGTGTCTG  
AGTTGCCTAGTCGCGGCTACGGCGTCATGGAGGAGATCCGGCGGCAGGGCAAGCTGTGCGACGTGACCCCTCAAGA  
TTGGGGACCACAAATTCAGTGCCACCGGATTGTCTTAGCAGCCTCGATCCCGTATTTCCATGCTATGTTTACAA  
ATGACATGATGGAGTGCAAGCAGGATGAGATTGTAATGCAAGGAATGGACCCAAGTGCCCTGGAGGCTCTGATCA  
ACTTTGCCTACAACGGCAACCTTGCCATTGACCAGCAAAATGTCCAGTCATTGCTGATGGGGGCGAGCTTCTCTGC  
AGCTGCAGAGCATCAAAGACGCCTGCTGCACATTCCCTTCGAGAACGGCTTCACCCAAAAAACTGCCTGGGTGTGC  
GCCAGTTTGCTGAGACAATGATGTGTGCTGTGCTGTACGACGCTGCCAACAGCTTCATCCACCAGCACTTTGTGG  
AGGTGTCCATGTGAGAAGAGTTCCCTGGCCCTGCCCTTGGAAGACGTGCTTGAGCTGGTGTCTCGGGATGAGCTGA  
ATGTCAAATCTGAGGAGCAGGTCTTTGAAGCTGCATTGGCCTGGGTGAGATACGACCGGGAGCAGAGGGGTCCCT  
ACCTGCCTGAGCTGCTGTCCAATATCCGCCTGCCCTCTGTGCGCCCCAGTTCCCTTTCAGACAGAGTACAGCAGG  
ATGACCTGGTGCCTTGTGTCACAAATGCAGGGACCTGGTAGACGAAGCAAAGGACTACCACCTCATGCCAGAGC  
GCCGGCCCCACCTGCCAGCTTTCAGAACCCGGCCACGCTGCTGCACATCCATCGCTGGACTTATCTACGCTGTAG  
GGGGCCTCAACTCAGCAGGTGATTCCCTGAATGTGGTGGAAAGTGTTCGACCCCATTTGCCAATTGCTGGGAGAGAT  
GCCGTCCCATGACAACAGCCCCGAGCCGCGTTGGCGTGGCTGTGGTGAACGGGCTTCTCTATGCCATCGGAGGAT  
ATGACGGCCAGCTACGGCTGAGCACTGTGGAGGCCTACAACCCGGAGACAGACACATGGACCAGAGTGGGGAGCA  
TGAATAGCAAGAGAAGTGCCATGGGGACAGTCGTGCTGGATGGGCAGATCTACGTCTGTGGGGGCTACGATGGCA  
ACTCTTCCCTCAGCTCCGTGGAGACCTACTCACCTGAGACGGACAAATGGACAGTGGTGACCTCGATGAGCTCGA  
ATCGCAGTGCTGCTGGGGTTACAGTCTTTGAGGGCAGGATATATGTGTGAGGCGGCCATGATGGTTTGAGATCT  
TCAGCAGTGTTGAACACTACAACCACACAGCCACCTGGCACCCCTGCAGCTGGCATGCTCAACAAGCGCTGCC  
GGCACGGAGCCGCTCCCTGGGGAGCAAGATGTTTGTCTGCGGGGGCTACGATGGCTCTGGCTTCTCAGCATTG  
CCGAGATGTACAGCTCTGTGGCAGACAGTGGTGCCTGATTGTCCCCATGCACACGCGCAGGAGCCGGGTCTCCC  
TGGTGGCCAGCTGTGGGCGCCTCTACGCTGTTGGGGGCTACGACGGACAGTCAAACCTAAGCTCAGTGGAGATGT  
ATGACCCAGAGACAGACTGCTGGACATTTCATGGCCCCCATGGCGTGCCATGAGGGAGGGGTGCGTGTGGGCTGCA  
TCCCTCTCCTCACCATCTAAGGCAGAGGATGGGATGTGGTGGGGCAGGGATCTGGTACAGACATAGGCGCTTCCT  
TCCAGGAACAGTCCCTCAGGAGAGGCAGTGGACCAGAAGAGATGGCGAAACGTGAGCTCGCCGGAGGTACAGTTT  
TTCCAGGTGCTTAAGCCCTCCCCACTGTGCCACCCTTGTGACCTTCAGGCTTGGGTGATCAAGATGCACAGCAT  
GGAACACAAGCTCCTCTGGATCCTGCAGCTGGTGCATGGAAGTGTCTTCTGGTCCACATGAACACAGGCTCCAT  
CCAGGCCCAGCTCCTACCCACCGCCTCTCTGTGGGCCAGCTGTTACAGAAGGCCTTCCATCTGATGCTCCCAT  
CGCTGCTTGCTCTCCAGCCGAGTCTGGCCAATTTGCCATGGGGAGGCTGCAGTGTCCAAGCCTGCTGGAAACTG  
GGATGTAGCTGGGGACGAAAGGACAGACCCCAAGCGTCTCCCTGCCTGAGATGGTGTGGCCACAGCAGTGGAAAG  
CTGCACACAGGCACATTCTTCTTCCACAGTGGGGCACCAAGGATTCTGTCTCATTGCTGGGTAAGCAGGGAGA  
AGAGAAGTTTTCCCATGTCTAATTTTGGGATTTAGTGAGGCCTTTTGATCTGTCCAGGAGAACAGAAGGGAAA  
AAAAGATACTTGAAAGAACTGAAGGAAATTTAAACAAAGAAACACTTGAAAGAACTGGAAAGAAAAATAATTT  
TTTTATGTGAACAAATTTTGCAAGAAGAAAAAGCATAAAGACACTAACGGCAAATCTATGTTTAAATGGAAAA  
TCGTCTAACTGGAGAAGGGCGGTATCCACCCACATTTCGGATCCCAGGGTCTGAGGCCTCGCATTGAGCTGGGG  
GTTCCCTCTGAGCCCCAGTGTGTGTGGAATCAGTGCACTCTTGACTGGGCCTGTAGTAAGGTGCTCATGGGGTTT  
GTCTTCTCACCACCATCAGAGGACTTTTAAATCATAGGCGTAGAGAGTTAGGCTATCTGCTGAATTACTGCCA  
CTCTTCTTGGTGGGGCTCCTAGCTGTGGCTGGGGGCTCCAGGCGCCCCCTGTGATTACCTCCTACTGCCACCATG  
GCGCTCATTAGATTCCCACTCTCACTAACATTGCTTCCTTTTTTGACCAGCAGGAAACAGCAGGTCTGGCCAG  
ATTCTCACTTGCCCATCAATCTCGTTCTTGATGATTTCCCTCATTGTGATGCTTCTGGGGCACGTTGACCATAT  
GCACCTCTAGAACCTAACAGGGCTTCTTCTACCAGCTGTGGGCGGGCTTGGTCTGGTAACCTTGTCTGCTCTG  
CCATTCCACTGCTCCTCCATCCACTCGCCAATCCCAAGAGTCTGGCCTCCCTCCAGCCCTGGGCAGACTGACCAG  
CAAGGTGGACCTTTACATTCAAGCACAGCTGGCTTTTATGACATAAAGAACTAAAGGCCGAAAGAATCTCTTGCT  
GCTGCAAAGAACAGATTTTATATTTCTTCTCTAATCTTGGCAAATGACCTTTACCTTTTGAAAGATTTTATAT  
TGCTTCTCTCCTCCCTGGATAGGACCTAATGTAGCACAGCGGACTCAAAGAGGAGGACATTTTCTCTTGCCAGTG  
CACTGGGCAGTGGGGCTGTCTTCAACTGCTGCTGCCAAAATGGTTTTCTAAAATTCTTCCAGTAGAGACTAAA  
AGAAGATTCAATTCCTGTAACCAAGACTGAGTCTTAGGGCTCCAGTCTCCACCTGCTTGGTTTCTATCCTTTG  
CTGCCTGCCTGGGGTGGCCTGGAAGCCTGTTAGAAAGGCACAATGTGAGCCTGGGGTGTCTCCCCACCCAG

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**FIGURE 1122B**

GACCGTCAGGTTTACCAGTGTGTGCAATCGCCATGTATTACAGAGGGAAGTACCTTTGTTACCTACAACCTTAGGAG  
CTAGGCCTCTGCTACAAGCACTTGAAAATGATATTTTTATTTTAAACGTCTCAACAATCTGATATCGGATGTCGT  
TTAACCTGGGCTCGTGGTAGGGCTCCAGCATTTCTCCCTCCTTCCTGGTTTGCTGTAGGGGTAGACTCGGAAGG  
TGGGTGGGGTGTGCATTTCTGTAGGAGTGTATCAGTGCTTGTCTTATTATAAGCCCCCTTTCTTTTGTGAATTT  
GAAGTAGCACCACAAGCCTGGATTGTGAAGGTATTAAGAATCGGTCTGTGGGCTACTGAGTGGGTCCTTAGGAT  
ACTGGCCCAGATTTTGCCACTGGGTATGGCAGATCATTTTCTACCATGGCCTGCTGCTCTTGTAGTGGACTTCCT  
GAGTCCAATCCCACCTCCTGGTGTAGAATTTACACTGCTGCACCTGAGGTCGATGTTTCAAAGTAAGATCAAGCC  
AGTGTTTTGATCTGGGCTCTGAGCACAAGTCAGGAAACACCAACATATTCACACTCTCCCAGTAGGTTTCCTCAGT  
CCGATGGTGAATGGCTATTCGTAAATGGCTGGTCTGGCTCTTTGGTGTTGGAGCCTTTCCAATAGCCCCATGAAA  
AGAAGCATCACCCAAGGATATTGTAAAAAGGATGTAACAAGGAGATAGGGTAGACATTGTACTCAGTGGGCCTTG  
GGCCTAGCCCAGCTCTGAGCAGAGGACTGTGGCATTCACTGTCCTTGAGTGTTTACCTTCTTGATAACACAC  
GGCCTTCTCTTCTGGATTTTCATCAGAGATTACAGCCAGATGGGGGCTGAAGACCATCCTCTTGACCACAGAGGT  
GTGACTGTGGGAATTCCTCCCAATTTATGGTTTCCCAGAAAATCTTAGTTCCTTTTATTTATAGAATGCATGTCT  
TTTGTGTTAAGAAACCAAAGAGAAATAAAGAGAACACTCCTAAT

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**FIGURE 1123A**

AGAGAGGGAGGGCGCCACGCACCGGACTGCGGGCCGAGAGCGCGCACGCCGCGCTCCGCCCCCTGCTGCCGCCCCC  
GTGCGCCGCCGCCGCCGCCGCCGCGCAGCTTGGGAGGTGCTGCCACCACAGGTACCTGCACATGTTGTTCTTTGTTCAG  
TGCTGTCAAGTGTGTGCCAGGGTGATCCATGGTCACTTTCCGGGATGGCAGCAAGGTGACTTCGGCTGAGGATGA  
CCCTGACTGAAAGGCTGCGTGAGAAGATATCTCGGGCCTTCTACAACCATGGGCTCCTCTGTGCATCCTATCCCA  
TCCCCATCATCCTCTTACAGGGTTCTGCATCTTAGCCTGCTGCTACCCACTGCTGAAACTCCCCCTTGCCAGGAA  
CAGGACCTGTGGAATTCACCACCCCTGTGAAGGATTACTCGCCCCACCTGTGGACTCTGACCGCAAACAAGGAG  
AGCCTACTGAGCAGCCTGAGTGGTATGTGGGTGCCCGGTGGCTTATGTCCAGCAGATATTTGTGAAGTCCCTCAG  
TGTTTCCCTGGCACAAGAACCTCCTGGCAGTAGATGTATTTGTTTACCTTTGTCCCGGGCATTCCAACCTGGTGG  
AGGAGATCCGGAACACGCTGCTGAGAGACAGCTCTGGGATCAGGAGCTTGGAGGAGTTGTGTCTGCAAGTGACCG  
ACCTGCTGCCAGGCCTTAGGAAGCTCAGGAACCTACTCCCTGAGCATGGATGCCTGCTGCTGTCCCCTGGGAACCT  
TCTGGCAGAATGACTGGGAACGCTTCCATGCTGATCCTGACATCATTGGGACCATCCACCAGCAGAGCCTAAAA  
CCCTGCAGACTTCAGCCACACTCAAAGACTTGTTATTTGGTGTTCCTGGGAAGTACAGCGGGGTGAGCCTCTACA  
CCAGGAAGAGGATGGTCTCCTACACCATCACCCCTGGTCTTCCAGCACTACCATGCCAAGTTCCCTGGGCAGCCTGC  
GTGCGCGCCTGATGCTTCTGCACCCAGCCCCAACTGCAGCCTTCGGGCGGAGAGCCTGGTCCACGTGCACTTCA  
AGGAGGAGATTGGTGTGCTGAGCTCATCCCCCTTGTGACCACCTACATCATCTTGTTCCTACATCTACTTCT  
CCACGCGGAAGATCGACATGGTCAAGTCCAAGTGGGGGTGGCCCTGGCTGCCGTGGTACAGTGCTCAGCTCGC  
TGCTCATGTCTGTGGGACTCTGCACACTCTTCGGCCTGACGCCACCCTCAATGGCGGCGAGATTTTCCCTACC  
TTGTGGTGGTTATTGGGTTAGAGAATGTGTTGGTGTCTACCAAGTCTGTGGTCTCAACCCCGGTAGACCTGGAGG  
TGAAGCTGCGGATCGCCCAAGGCCTAAGCAGCGAGAGCTGGTCCATCATGAAGAACATGGCCACGGAGCTGGGCA  
TCATCCTCATCGGCTACTTCACCCTAGTGCCCGCCATCCAGGAGTTCTGTCTCTTTGCTGTGCTGGGGCTGGTGT  
CTGACTTCTTTCCTTCAGATGCTGTTTTTACCACTGTCTGTCCATTGACATTGCGCGGATGGAGCTAGCAGACC  
TGAACAAGCGACTGCCCCCTGAGGCCTGCCTGCCCTCAGCCAAGCCAGTGGGACAGCCAACGCGCTACGAGCGGC  
AGCTGGCTGTGAGGCCGTCCACACCCACACCATCACGTTGCAGCCGTCTTCCTTCCGAAACCTGCGGCTCCCCA  
AGAGGCTGCGTGTTGTCTACTTCTTGCCCCGACCCGCTGGCACAGCGCCTCATCATGGCTGGCACCGTTGTCT  
GGATTGGCATCCTGGTATACACAGACCCAGCAGGGCTGCGCAACTACCTCGCTGCCAGGTGACGGAACAGAGCC  
CATTGGGTGAGGGAGCCCTGGCTCCCATGCCCGTGCTAGTGGCATGCTGCCCCCAGCCACCCGGACCCCTGCCCT  
TCTCCATCTTCCCACCTGATGCCCTAAGCTACCTGAGAACCAGACGTCGCCAGGCGAGTCACCTGAGCGTGAGG  
GTCCAGCAGAGGTTGTCCATGACAGCCAGTCCAGAGGTAACCTGGGGGCTGAGGATGAGGAACCTTTGGAGGA  
AATTGTCCTTCCGCCACTGGCCGACGCTCTTCAGCTATTACAACATCACACTGGCCAAGAGGTACATCAGCCTGC  
TGCCCGTCATCCAGTCACGCTCCGCTGAACCCGAGGGAGGCTCTGGAGGGCCGGCACCCCTCAGGACGGCCGCA  
GTGCTGGCCCCCACCAGGGGCCATACCTGCTGGGCACTGGGAAGCAGGACCCAAGGGCCAGGTGGGGTGCAGG  
CCCATGGAGACGTACGCTGTACAAGGTGGCGGCGCTGGGCCTGGCCACCGGCATCGTCTTGGTGTGCTGCTGC  
TCTGCCCTTACCGCTGCTATGCCCGCGCAACTACGGGCAGCTGGGTGGTGGGCCCGGGCGGCGGAGGCGCGGG  
AGCTGCCCTGCGACGACTACGGCTATGCGCCACCCGAGACGGAGATCGTGCCGCTTGTGCTGCGCGGCCACCTCA  
TGGACATCGAGTGCTGGCCAGCGACGGCATGCTGCTGGTGAGCTGCTGCCCTGGCAGGCCACGTCTGCGTGTGGG  
ACGCGCAGACCGGGGATTGCCTAACGCGCATTCCGCGCCAGGGCAGCGCCGGGACAGTGGCGTGGGCAGCGGGC  
TTGAGGCTCAGGAGAGCTGGGAACGACTTTTCAAGATGGTGGGAAGGCTGGTCCAGAGGAGCCTGGGGACAGCCCTC  
CCCTGAGACACCGCCCCCGGGGCCCTCCGCCGCTTCCCTCTTCGGGGACCAGCCTGACCTCACCTGCTTAATTG  
ACACCAACTTTTACGCGCAGCCTCGGTCTCACAGCCCACTCAGCCCCGAGCCCCGGCACCGGGCGGTCTGTGGCC  
GCTCTCGGGACTCCCCAGGCTATGACTTCAGCTGCCTGGTGCAGCGGGTGTACCAGGAGGAGGGGCTGGCGGCCG  
TCTGCACACCAGCCCTGCGCCACCCCTGCGCTGGGCGGGTGTGTCCAGGCCCTGAGGACGAGGGTGGCTCCC  
CCGAGAAAGGCTCCCCCTCCCTCGCCTGGGCCCCAGTGCCGAGGGTTCCATCTGGAGCTTGGAGCTGCAGGGCA  
ACCTCATCGTGGTGGGGCGGAGCAGCGGCGGCTGGAGGTGTGGGACGCCATTGAAGGGGTGCTGTGCTGCAGCA  
GCGAGGAGGTCTCCTCAGGCATTACCGCTCTGGTGTCTTGGACAAAAGGATTGTGGCTGCACGGCTCAACGGTT  
CCCTTGATTTCTTCTCCTTGGAGACCCACACTGCCCTCAGCCCCCTGCAGTTTAGAGGGACCCAGGGCGGGGCA  
GTTCCCCCTGCCTCTCCAGTGTACAGCAGCAGCGACACAGTGGCCTGTCACTGACCCACACAGTGCCCTGTGCAC  
ACAAAAACCCATCACAGCCCTGAAAGCGCTGCTGGGCGCTTGGTGAAGTGGGAGCCAAGACCACACACTGAGAG  
TGTTCCGTCTGGAGGACTCGTGCTGCCTCTTACCCTTACAGGGCCACTCAGGGGCCATCACGACCGTGTACATTG

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**FIGURE 1123B**

ACCAGACCATGGTGCTGGCCAGTGGAGGACAAGATGGGGCCATCTGCCTGTGGGATGTACTGACTGGCAGCCGGG  
TCAGCCATGTGTTTGCTCACCGTGGGGATGTCACCTCCCTTACCTGTACCACCTCCTGTGTCATCAGCAGTGGCC  
TGGATGACCTCATCAGCATCTGGGACCGCAGCACAGGCATCAAGTTCTACTCCATTCAGCAGGACCTGGGCTGTG  
GTGCAAGCTTGGGTGTCATCTCAGACAACCTGCTGGTGACTGGCGGCCAGGGCTGTGTCTCCTTTTGGGACCTAA  
ACTACGGGGACCTGTTACAGACAGTCTACCTGGGGAAGAACAGTGAGGCCAGCCTGCCCCGCCAGATCCTGGTGC  
TGGACAACGCTGCCATTGTCTGCAACTTTGGCAGTGAGCTCAGCCTGGTGTATGTGCCCTCTGTGCTGGAGAAGC  
TGGACTGAGCGCAGGGCCTCCTTGCCCAGGCAGGAGGCTGGGGTGCTGTGTGGGGGCCAATGCACTGAACCTGGA  
CTTGGGGGAAAGAGCCGAGTATCTTCCAGCCGCTGCCTCCTGACTGTAATAATATTAAACTTTTTTAAAAAACCA  
TATCATCATCTGTCAGGCACTTTGGGA

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**FIGURE 1124**

MTLTERLREKISRIFYNHGLLCASYPIPIILFTGFCILACCYP LLKLPLPGTG PVEFTTPVKDYSPPPVDS DRKQ  
GEPT EQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLSRA FQLVEEIRNHVLRDSSGIRSLEELCLOV  
TDLLPGLRKLRLNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSVSL  
YTRKRMVSYTITLVFQHYHAKFLGSLRRLMLLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTITYIILFAYIY  
FSTRKIDMVKSKWGLALAAVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVVIGLENVLVLT KSVVSTPVDL  
EVKLRIAQGLSSESWSIMKNMATELGIIILIGYFTLVPAIQEFCLFAVVGLVSDFFLQMLFFTTVLSIDIRRMELA  
DLNKRLPPEACLPSAKPVGQPTRYERQLAVRPSTPHTITLQPSFRNLRLPKRLRVVYFLARTRLAQRLIMAGTV  
VWIGILVYTDPAGLRNYLAAQVTEQSP LGEALAMPVPSGMLPPSHDPAFSIFPPDAPKLPENQTS PGESPER  
GGPAEVVHDSVPVEVTWGPEDDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPVTLRLNPREALEGRHPQDG  
RSAWPPPGPIPAGHWEAGPKGPGGVQAHGDVTLYKVAALGLATGIVLVLLLLCLYRVLCPRNYGQLGGGPGRRRR  
GELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGHVCVWDAQTGDCLTRIPRPGQRRDSGVGS  
GLEAQESWERLSDGGKAGPEEPGDSPPLRHRPRGPPPPSLFGDQPDLTCLIDTNFSAQPRSSQFTQPEPRHRAVC  
GRSRDSPGYDFSCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSPKGSPLAWAPSAEGSIWSLELQ  
GNLIVGRSSGRLEVWDAIEGVLCCSSEEVSSGITALVFLDKRIVAARLNGSLDFFSLEHTALSPLQFRGTPGR  
GSSPASPVYSSSDTVACHLTHTVPCA HQPITALKAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVY  
IDQTMVLASGGQDGAICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLISIWDRSTGIKFYSIQQDLG  
CGASLGVISDNLLVTGGQGCVSFWDLNYGDLLQTVYLGKNSEAQPARQILVLDNAAIVCNFGSEL SLVYVPSVLE  
KLD



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**FIGURE 1125**

GTTCCTTCGCCCCGGTCCCTGCCGCGCACAGGCCTCGGGGTGGGCGGGAGCACGATGGCGGCCGCTAGGAGACTC  
ATGGCGCTGGCCGCGCGCATCTCTCCGCGCCTGCAGCCGCTGGGTCCCCGCGCTGCTGGGCGACAGGGTCGCTCG  
CGCGGCTTCTCTTCAAGCTGCGCCCCACCCGACCACACCAAGGAAGCCGCGAGGCCGAGTCAGGGATGGCCCCC  
GGCGGGCCTGGGGAAGGCGACGGAAGCTTGGTGAACGCTTCTAGGGACCTATTAAAAGAGTTCCACAGCCCCAAA  
AATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCAAAAGACAAACTAGTCTACGTGCACACA  
AATGGACCGAAGAAAAAGAAAGTCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGC  
AAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCC  
CGGAATGAGTTGTTTGACGCAGCCAAATACCGAGTGCTAGCTGATCGCTTTGGCTCCCCCTGCCGACAGCTGGTGG  
CGTCCGGAACCCACCATGCCCCCTACTTCCTGGCGGCAGCTGAATCCAGAGAGTATTGACACAGGGGGACCTGGG  
GGCCTATCCCGCTCTTTAGGCCGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAGATGTT  
ACCGACTTCTTGTCCATGACCCAGCAGGATTCCCACGCTCCACTCAGGGACTCAAGGGGGAGTTCCTTTGAGATG  
ACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCCAAGAACCTTCTGGCCAAGGTGATTGAG  
ATTGCAACGTCATCCTCCACAGCTAAGAACCTCATGCAGTTCCATACTGTGGGCACCAAGACCAAGCTGTCTACA  
CTCACCTGCTCTGGCCCTGCCCCATGACCTTTGTTGCCAAAGGGCGCCGCAAAGCAGAGGCTGAGAATAAGGCG  
GCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGGACAGGAACAACGAACCGCTTACACACGGTTAC  
GGAGCCGATGGCTGACGATTTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCCGGGACTCCTCTCAGGTGC  
ACCCGCTAGCTGTGCTGCTGCTGACCGACGGGGACGTGCACATCCGTGATGACGGGCGCCGGGCCACCATCTCAC  
TGAGCGACAGTGACCTGCTGCGGCTGGAGGGTGACTCGCGTACCGTGCGGCTGCTGAAGGAGCTGCGGCGGGCCC  
TGGGCCGATGGTGGAGCGGAGCCTGCGCAGCGAGCTGGCTGCACTTCCCCCAGCGTACAGGAGGAGCACGGGC  
AGCTGCTTGCCTACTGGCAGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACT  
GAGCCCTGCTTCTGCTGGGGCTGTGTACAGAGTGCAAATGTTTATTTAAAATAAAGTTCTATTTATCCCTTGTG

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**FIGURE 1126**

MAAARRLMALAAGISPRLOPLGPRAAGRQGRSRGFSSSCAHPDHTKEAAEAESGMAPGGPGEGDGS LVNASRDLL  
KEFPQPKNLLNSVIGRALGISHAKDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFK  
GWGLLGPRNELFDAKYRVLADRFSGPADSWWRPEPTMPPTSWRQLNPFESIRPGGPGGLSRSLGREEEDEEEEL  
EEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVG  
TKTKLSTLTLLWPCPMTFVAKGRRKAEAEENKAAALACKKLKSLGLVDRNNEPLTHGYGADG

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**FIGURE 1127**

CGAAAGGCCGGCCTGGCTGCGACAGCCTGGGTAAGAGGTGTAGGTGGCTTGGTTTTCTGCTACCCGGAGCTGGG  
CAAGCGGGTGGGAGAACAGCGAAGACAGCGTGAGCCTGGGCCGTTGCCTCGAGGCTCTCGCCCGGCTTCTCTTGC  
CGACCCGCCACGTTTGTGGATTAACTTTAGGTTGCCGGCGCCCGCCCGCTGGCCTCGCGGTGTGAGA  
GGGAAGCACCCGTGCCTGTGGCTGGTGGCTGGCGCCTGGAGGGTCCGCACACCCGCCCGGCCGCGCCGCTTGCC  
GCGGCAGCCGCGTCCCTGAACCGCGGAGTCGTGTTGTGTTGACCCGCGGGCGCCGGTGGCGCGCGGCCGAGGC  
CGGTGTCGGCGGGCGGGCGGGTCCGCGCGGAGGCAGAGGAAGAGGGAGCGGGAGCTCTGCGAGGCCGGGCGCCG  
CCATGGAAC TGGGCCCGGAGCCCCCGCACCCGCCCGCCTGCTCTTCGCCTGCAGCCCCCTCCCGCGTCGCAGC  
CCGTGCTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTGCCTGTCAACCACTGACCGTCACTATGG  
ACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACCACTGGAGGTGAAGAACAACAGTAATCTGCAGAGAATGG  
GCTCCTCCGAGTCAACAGATTTCAGGTTTCTGTCTAGATTCTCCTGGGCCATTGGACAGTAAAGAAAACCTTGAA  
ATCCTATGAGAAGAATACATTCCCTACCTCAGAAGCTGTTGGGATGTAGTCCAGCTCTGAAGAGGAGCCATTCTG  
ATTCTCTTGACCATGACATCTTTAGCTCATCGACCCAGATGAGAACAAGGAAAATGAAGCCTTTGAGTTAAGA  
AGCCAGTAAGACCTGTATCTCGTGGCTGCCTGCACTCTCATGGACTCCAGGAGGGTAAAGATCTCTTCACACAGA  
GGCAGAACTCTGCCCCAGCTCGGATGCTTTCTCAAATGAAAGAGATAGCAGTGAACCAGGGAATTTCACTCCTC  
TTTTACACCCAGTCACCTGTGACAGCCACTTTGTCTGATGAGGATGATGGCTTCGTGGACCTTCTCGATGGAG  
AGAACTCTGAAGAATGAGGAGGAGACCCCTCGTGCATGGCAAGCCTCTGGACAGCTCCTCTCGTCATGAGAACTA  
CAAACCTTGACAACCGATGCAAGCTGTTTGACTCCCTTCCCTGTGTAGCTCCAGCACTCGGTCACTGTTGAAGA  
GACCAGAACGATCTCAAGAGGAGTCTCCACCTGGAAGTACAAAGAGGAGGAAGAGCATGTCTGGGGCCAGCCCCA  
AAGAGTCAACTAATCCAGAGAAGGCCCATGAGACTCTTCATCAGTCTTTATCCCTGGCATCTTCCCCCAAAGGAA  
CCATTGAGAACATTTTGGACAATGACCAAGGGACCTTATAGGAGACTTCTCCAAGGGTTATCTCTTTCATACAG  
TTGCTGGGAAACATCAGGATTTAAAATACATCTCTCCAGAAATTATGGCATCTGTTTTGAATGGCAAGTTTGCCA  
ACCTCATTAAGAGTTTGTATCATCGACTGTGATACCCATATGAATACGAGGGAGGCCACATCAAGGGTGCAG  
TGAACCTGCACATGGAAGAAGAGGTTGAAGACTTCTTATTGAAGAAGCCCATTTGACCTACTGATGGCAAGCGTG  
TCATTGTTGTGTTTACTGCGAGTTTTCTTCTGAGAGAGGTCCCCGCATGTGCCGGTATGTGAGAGAGAGAGATC  
GCCTGGGTAATGAATACCCCAAACCTCCACTACCCTGAGCTGTATGTCCTGAAGGGGGGATACAAGGAGTTCTTTA  
TGAAATGCCAGTCTTACTGTGAGCCCCCTAGCTACCGGCCCATGCACCACGAGGACTTTAAAGAAGACCTGAAGA  
AGTTCCGCACCAAGAGCCGGACCTGGGCAGGGGAGAAGAGCAAGAGGGAGATGTACAGTCGTCTGAAGAAGCTCT  
GAGGGCGGCAGGACCAGCCAGCAGCAGCCCAAGCTTCCCTCCATCCCCCTTTACCCTCTTTGCTGCAGAGAACT  
TAAGCAAAGGGGACAGCTGTGTGACATTTGGAGAGGGGGCTGGGACTTCCATGCCTTAAACCTACCTCCACAC  
TCCAAGGTTGGAGCCCAGGGCATCTTGCTGGCTACGCCTCTTCTGTCCCTGTTAGACGTCTCCGTCCATATCA  
GAACTGTGCCACAATGCAGTTCTGAGCACCGTGTCAAGCTGCTCTGAGCCACAGTGGGATGAACCAGCCGGGGCC  
TTATCGGGCTCCAGCCATCTCATGAGGGGAGAGGAGACGGAGGGGAGTAGAGAAGTTACACAGAAATGCTGCTGG  
CCAAATAGCAAAGA

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**FIGURE 1128**

GAATTCCGGCCATGAAAGACCCAAAGGAATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTCCTGCTGCTGGGCC  
TGGTGATGCCTCTGGCCATCATTGCCCAGGTCCTCAGCTACAAGGAAGCTGTCTTCGTGCTATAGATGGCATCA  
ACCAGCGGTCTCTGGATGCTAACCTCTACCGCCTCCTGGACCTGGACCCCAGGCCCACGATGGATGGGGACCCAG  
ACACGCCAAAGCCTGTGAGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTCACCAGAGGATT  
GTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGCCAGGGGCTCCTTTG  
ACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGGTGATTTCTTCCGGAAATCTAAAGAGAAGATTG  
GCAAAGAGTTTAAAAGAATTGTCCAGAGAATCAAGGATTTTTTGCGGAATCTTGTACCCAGGACAGAGTCCTAGT  
GTGTGCCCTACCCTGGCTCAGGCTTCTGGGCTCTGAGAAATAAACTATGAGAGCAATTTCAAAAAAAAAAAAAAA  
AAAAAACCGGAATTC

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**FIGURE 1129**

MKTQRNGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLDLDPRPTMDGDPDTPK  
PVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGSFDISCDKDNKRFALLGDFFRKSKEKIGKEF  
KRIVQRIKDFLRNLVPTES

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**FIGURE 1130**

CGTGCGTGCGCGCGCAGATGTGGGCCCGCGGGAGCAGCTACTGGGCTGGACTGCGGAAGCTCTGCCTGCCAAGG  
ATTCTGCCTGGCCCTGGGAAGAGAAGCCTAGATATCTGGTTCCAGTGGCAGATGGGGCACTGGCCAGAGGGGTTA  
GGAGGATTGGACTCTCCTTGGGAGTCGCTGTGATACGGCCTTCAATTATAGTTGTCTTTCCTTCTTGGATTTC  
ACCACTTCCCTGAAACCACGAGCTGGAAGCTGAGACCAGCTGGTCACTGCTGGGCCTGCTAGGAGCCACACGGA  
AGCTGCCACAGCCAGACACCAGAGCCTCAAAGGCCGCCATCTTGAAAAACCAACCCTGACCTCCACAATGATTG  
ATTTTCAAATGTTGAACCAGCTTTGCAGAACTATAATAAACCCAAGTGTGATAACCCTGTCTCAAGTATTGTGGTG  
ATCAAATAGGACCAGTGACTTTCGAGGATGTGGCTGTGCTTTTCACTGAGGCAGAGTGGAAGAGACTGAGCCTTG  
AGCAGAGGAACCTATACAAAGAAGTGATGCTGGAAAATCTCAGGAATCTGGTCTCATTGGAATCAAAGCCAGAAG  
TCCATACCTGCCCTTCTTGCCCTCTGGCCTTTGGCAGTCAGCAGTTCCCTCAGCCAAGATGAGCTACACAATCATC  
CTATTCCAGGTTTCCATGCAGGAAATCAACTCCACCCAGGAAATCCCTGCCCAGAGGATCAGCCACAGTCACAAC  
ATCCTTCTGATAAAAATCACAGGGGGGCTGAAGCAGAAGATCAACGAGTGGAAGGAGGCGTCAGACCCTTGTTTT  
GGAGTACAAATGAAAGGGGGGCTTTAGTGGGTTTCTCTAGCCTGTTCCAGAGACCACCAATAAGCTCTTGGGGAG  
GCAACAGAATATTAGAGATACAGCTCAGTCCAGCCCAGAATGCAAGCTCTGAGGAAGTAGACAGAATTTCCAAGA  
GGGCAGAAACCCAGGGTTTGGAGCAGTCACGTTTGGGGAGTGTGCACTAGCTTTTAACCAGAAGTCAAACCTGT  
TCAGACAGAAGGCAGTCACAGCAGAAAAATCTTCAGACAAAAGGCAGTCACAGGTGTGCAGGGAGTGTGGGCGAG  
GCTTTAGCAGGAAGTCACAGCTCATCATACACCAGAGGACACACACAGGAGAAAAGCCTTATGTCTGCGGAGAGT  
GTGGGCGAGGCTTTATAGTTGAGTCAGTCCCGCAACCACCTGAGTACACACTCCGGGGAGAAACCTTATGTGT  
GCAGCCATTGTGGGCGAGGCTTTAGCTGCAAGCCATACCTCATCAGACATCAGAGGACACACACAAGGGAGAAAT  
CGTTTATGTGCACAGTGTGTGGGCGAGGCTTTCGTGAAAAGTCAGAGCTCATTAAAGCACCAGAGGTGTCAAGTGA  
CGGTCCCCTTGGAGGAATGGTCTTTGCATCTGACTACTTCTTCTGCAACTGTGTTCTTCCATTAGCTTCCATGA  
CACTCTCCTGCTTTATTTTTTCTACATCTCTAGCCTTTGCTGTTTCTCTCTCTACCCACCTTTAGATTTTACT  
CAGAGTTCAGTCTCCAGCCCTACAATCTGAGGGACACCTTTACCAGGTCCCCTTCTTAACCTCCAGTCCCAAAT  
CCAAGATTCTTTAACCACACTCTAAAAGTTCTTCAGACTCAGGACTTAAACATAGCCACGCCACCTTGGCCTTCA  
ATGACAGGGATCTAGCAATGCTGCATCATCAGCCTTCCAATACCAGGTTTAAGGGTATTTTAAACACAGCTCCTC  
TTAAATCCTCCAATCTCAGTACCCAGTGTTTTAGCCATGCTCGGGTGGCTAAATTACATCCAGGAATGGTGCCAG  
GGCCTTTAGCCATTTGTCTCTCCTCACACTCCAGGGCCCATATGGCCAGGTTCTGACAGTTTGCTTACTCCCT  
TGGGCTGGGGCTAGCCCTACCTGATACCCTGTGTCAATGAGTGTACCTTGGAGAGCTATCCACTCAGGCCCCAGT  
GCCTCTATTTGCTAAGGGACTCTGCCACAGAAAAGAAGGGGAGAGATGTTTATGTAACCTCAAAATACTTAGGCT  
TGGTTTTGATGCTAGAGAGGAAAAAGGACTTGGAGAGAGAGAAGGAATGGCTGGTCCAGAGGCTTTTGTCCACTC  
CCTCTCACTGGAAGTGGTTGATCTCCAGGGAATCCCCAAGGTTAGCCGTGCTTAGGGGAAGGGCTAGGGGTACCTG  
GAATGTAGGATCTCCCCATGCCTGGCCTACCACCCTAATGTGTCTGGAATTGGTGGGTTCTTGGTCTTGCTGAC  
TTCAAGAATGAAGCCGTGGACCCTCACGGTGAGTGTACAAATCTTAAA

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**FIGURE 1131**

CAGCGTGCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGAGGTTTCGCCCTGGCTACAACGACCC  
CATGTCAGGGTTCGGAGCGACCTTGGCCGTTGGCCTGACCATCTTTGTGCTGTCTGTGCTCACTATCATCATCTG  
CTTCACCTGCTCCTGCTGCTGCCTTTACAAGACGTGCCGCCGACCACGTCCCTCCAAGTGTGCCGCCAGCTACC  
CTGGACCAAGCTACCAGGGCTACCACACCATGCCGCCTCAGCCAGGGATGCCAGCAGCACCCCTACCCAATGCAGT  
ACCCACCACCTTACCCAGCCCAGCCCATGGGCCCCACCGGCCTACCACGAGACCCTGGCTGGAGGAGCAGCCGCGC  
CCTACCCCGCCAGCCAGCCTCCTTACAACCCGGCCTACATGGATGCCCCGAAGGCGGCCCTCTGAGCATTCCCTG  
GCCTCTCTGGCTGCCACTTGGTTATGTTGTGTGTGTGCGTGAGTGGTGTGCAGGCGCGGTTCCCTTACGCCCCATG  
TGTGCTGTGTGTGTCCAGGCACGGTTCCCTTACGCCCCATGTGTGCTGTGTGTGTCTGCTGTATATGTGGCTTC  
CTCTGATGCTGACAAGGTGGGGAACAATCCTTGCCAGAGTGGGCTGGGACCAGACTTTGTTCTCTTCCTCACCTG  
AAATTATGCTTCCTAAAATCTCAAGCCAAACTCAAAGAATGGGGTGGTGGGGGGCACCCCTGTGAGGTGGCCCCTG  
AGAGGTGGGGGCTCTCCAGGGCACATCTGGAGTTCTTCTCCAGCTTACCCTAGGGTGACCAAGTAGGGCCTGTC  
ACACCAGGGTGGCGCAGCTTTCTGTGTGATGCAGATGTGTCTGGTTTCGGCAGCGTAGCCAGCTGCTGCTTGAG  
GCCATGGCTCGTCCCCGGAGTTGGGGGTACCCGTTGCAGAGCCAGGGACATGATGCAGGCGAAGCTTGGGATCTG  
GCCAAGTTGGACTTTGATCCTTTGGGCAGATGTCCCATGTCTCCCTGGAGCCTGTGATGCCTGTTGGGGATCAGG  
CAGCCTCCTGATGCCAGAACACCTCAGGCAGAGCCCTACTCAGCTGTACCTGTCTGCCTGGAETGTCCCCTGTCC  
CCGATCTCCCCTGGGACCAGCTGGAGGGCCACATGCACACACAGCCTAGCTGCCCCCAGGGAGCTCTGCTGCCC  
TTGCTGGCCCTGCCCTTCCCACAGGTGAGCAGGGCTCCTGTCCACCAGCACACTCAGTTCTCTTCCCTGCAGTGT  
TTTCATTTTATTTTAGCCAAACATTTTGCCTGTTTTCTGTTTCAAACATGATAGTTGATATGAGACTGAAACCCC  
TGGGTTGTGGAGGGAAATTGGCTCAGAGATGGACAACCTGGCAACTGTGAGTCCCTGCTTCCCGACACCAGCCTC  
ATGGAATATGCAACAACCTCTGTACCCAGTCCACGGTGTCTGGCAGCAGGGACACCTGGGCCAATGGGCCATC  
TGGACCAAAGGTGGGGTGTGGGGCCCTGGATGGCAGCTCTGGCCCAGACATGAATACCTCGTGTTCCCTCCCT  
CTATTACTGTTTCACCAGAGCTGTCTTAGCTCAAATCTGTTGTGTTTCTGAGTCTAGGGTCTGTACACTTGTTTA  
TAATAAATGCAATCGTTTGG

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**FIGURE 1132A**

AGCGAACCATCGGGGCGGCCGGGAGCCATGTTGGAGCGGCGGGAGGCGGCAGCAGCGTCGGGGATGCTGTGGTGG  
GGGCGGAAAAAGCCAGGGCCGACGCCGGAGGGGCTCCGGCCGCGGAGTAGATGGTGCCAGAGGGCGGCGGGG  
TGCGGAGAGACAGGCGGAGGGGCGGGGGCCCGGGGCGGCGGCAGGGGCCCCGGGAGGGGGCCGAGCGGCGGGGCC  
AGCCCCAAGGCCCCGACCGGGGCGGGGGCGGTGGAGGCCGTGCAGGGAGGCGGGAGATGATGTCGAGGCGGCGCCG  
CGTGCGGGGCGCTCGGGGAACGGTCGACCCCCATACTCCTGCTCCTTCTCCTCTCTTTGTTCCCCCTCAGCCAGG  
AGGAGCTGGGGGGCGGTGGGCACCAAGGCTGGGACCCAGGCTTAGCTGCCACTACGGGGCCAAGGGCGCATATCG  
GTGGCGGAGCCTTAGCTCTTTGTCCGGAGTCTTCCGGGGTCCGGGAGGATGGGGGGCTGGCCTGGGGGTCAGGG  
AGCCTATCTTCGTGGGGCTCCGAGGGAGAAGGCAAAGCGCCCCGAATAGTCGAGGGCCCCCTGAGCAGCCGAATG  
AGGAGCTGGGGATTGAACACGGCGTCCAGCCATTGGGCAGCCGCGAACGAGAGACAGGACAGGGACCAGGGTCTG  
TGTTATACTGGCGCCAGAGGTCTCCTCTTGCGGGCGGACAGGACCTTTGCAAAGAGGTAGTCTGTCACCAGGGG  
CTCTGTCTCAGGGGTCCCCGGGCTCGGGGAACAGCTCGCCCCCTCCCTTCAGACTTTTTGATTCCGCACCACGGTC  
CCAAGCCGGTGTCTCTCCAGCGGAACGCTGGGACAGGCTCCCGCAAAAGAGTGGGCACCGCGCGCTGCTGTGGGG  
AATTATGGGCAACAGGGAGCAAGGGTCAGGGCGAGAGAGCCACGACATCCGGAGCAGAAAGGACAGCCCCCGGC  
GGAACGTGTCTTCCAGGGGCGCTCGGGATCTGGCCCCGAGCTGGATTACGACACCACGACAGGCGAGGACAGCTCCTG  
CATCAGGTTTCAGCACCCTCGGAGTCTCGGACAGCTCCCGAGCCGGCGCCCAAGCGCATGCGCTCCCGGGGTCTCT  
TCCGCTGCCGCTTCTCTCCCGCAGCGCCCCGGGCGCGTCCCCGGGACTCCCGGCCCTGCTGAAGCCAGGAAAG  
TAACCTCGGCGAACCGGGCAGCCTTTGCTCGCGCCGCAAACCGCCACCCGAGTTTCCGCGAGTACAACCTACCAGA  
CGCTGGTGCCGGAATGAGGCAGCAGGACCCGCGGTGCTACGCGTGGTTGCTCAGGACCCGGACGCCGCGGAGG  
CCGGGCGCCTAGTCTACTCGCTGGCGGCACCTCATGAACAGCGCTCGCTGGAGCTGTTAGCATCGACCCGCGAGA  
GCGGCCTTATCCGTACGGCGGCAGCTCTGGACCGCGAGAGCATGGAGCGTCACTACCTGCGTGTGACCGCGCAGG  
ACCACGGGTGCGCGCGCTCTCGGCCACCACGATGGTGGCGTGACAGTAGCCGACCGCAACGACCTCGCCGG  
TTTTTGAGCAAGCGCAGTACCGGGAGACCTTTCGCGAGAATGTGGAGGAGGGCTACCCTATCCTGCGCTGCGTG  
CCACTGACGGCGACGCGCCCCCAACGCCAACCTGCGCTACCGCTTCGTGGGGCCGCCAGCTGCGCGCGCTGCAG  
CTGCCGCCGCTTCGAGATTGATCCACGCTCCGGCCTCATCAGCACCAGCGGCCGAGTGGACCGCGAGCACATGG  
AAAGCTATGAGCTGGTGGTGGAAAGCCAGCGACCAGGGCCAGGAACCCGGGCGCGCTCGGCCACTGTGCGCGTAC  
ACATAACTGTGCTAGACGAGAACGACAATGCTCCTCAGTTCAGCGAGAAGCGCTACGTGGCGCAGGTGCGCGAGG  
ATGTGCGCCCCACACAGTCGTGCTGCGCGTACCGGCCACTGACCGGGACAAGGACGCCAACGGATTGGTGCCT  
ACAACATCATCAGTGGCAATAGCCGTGGACACTTTGCCATCGACAGCCTCACTGGCGAGATCCAGGTGGTGGCAC  
CTCTGGACTTCGAGGCAGAGAGAGATATGCCTTGCGCATCAGGGCGCAGGATGCTGGCCGGCCACCGCTGTCCA  
ACAACACGGGCTGGCCAGCATCCAGGTGGTGGACATCAATGACCACATTCCTATTTTTGTGACACGCCCTTCC  
AAGTTTCTGTCTTGGAAATGCTCCCTTGGGTCACTCAGTCATCCACATTCAGGCAGTCGATGCAGACCATGGGG  
AGAATGCCAGATTGGAGTACTCCCTAACTGGTGTGGCACCTGATACTCCTTTTGTGATAAACAGCGCCACTGGCT  
GGGTCTCTGTGAGTGGTCCCTGGACCGTGAGTCTGTGGAGCATTACTTCTTTGGTGTGGAGGCTCGAGACCATG  
GCTCACCCTCACTCTCTGCCTCAGCCAGTGTACCGTGACTGTGCTGGACGTTAATGACAATCGGCCTGAGTTCA  
CAATGAAGGAGTACCACCTACGACTGAATGAGGATGCAGCTGTGGGCACCAAGTGTGGTCAGCGTGACCGCAGTAG  
ACCGTGATGCCAACAGTGCCATCAGCTACCAGATCACAGGCGGCAACACCCGGAATCGCTTTGCCATCAGCACCC  
AGGGGGGTGTGGGTCTGGTGACTCTGGCTCTGCCACTGGACTACAAGCAGGAACGCTACTTCAAGCTGGTACTAA  
CTGCATCTGACCGTGCCCTTCATGATCACTGCTATGTGCACATCAACATCACAGATGCCAACACTCATCGGCCGG  
TCTTTCAAAGTGCCCACTACTCAGTGAGTGTGAATGAAGATCGGCCAATGGGTAGCACCATAGTGGTCATCAGTG  
CCTCTGATGATGACGTGGGTGAGAATGCTCGTATCACCTATCTCCTGGAGGACAACCTGCCCCAGTTCCGCATTG  
ATGCAGACTCAGGAGCCATTACATTACAGGCCCCATTAGACTATGAGGACCAGGTGACCTACACCCTGGCTATCA  
CAGCTCGGGACAATGGCATCCACAGAAGGCAGACACTACTTATGTGGAGGTGATGGTCAATGACGTGAATGACA  
ATGCTCCACAATTTGTGGCTCCCACTATACAGGGCTGGTCTCTGAGGATGCCCCACCTTTACCAGTGTCTGTC  
AGATCTCAGCCACTGACCGGGATGCTCATGCCAATGGCCGGGTCCAGTACACTTCCAGAATGGTGAAGATGGGG  
ATGGAGATTTTACCATTGAGCCACCTCTGGAATTGTCCGTACAGTAAGCGGCTAGACCGGGAGGCAGTATCAG  
TGTATGAGTTGACTGCCTACGCACTGGACAGAGGTGTGCCCCACTCCGGAAGTCCAGTACGATCCAGGTGATGG  
TGCAGGATGTGAACGACAATGCACCTGTCTTCCAGCTGAGGAGTTTGAAGTGGGGTGAAAGAGAATAGCATTG  
TGGGCTCAGTGGTGGCCAGATCACTGCAGTGGACCCTGACGAAGGCCCAATGCCCATATAATGTACCAGATCG



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**FIGURE 1132B**

TGGAGGGGAACATCCCTGAGCTGTTCCAAATGGACATCTTCTCTGGAGAACTGACGGCACTCATTGACCTAGACT  
ATGAGGCTCGCCAAGAATATGTGATTGTGGTGCAGGCCACATCTGCTCCTTTGGTCAGCCGGGCCACTGTGCACG  
TCCGCTGGTTGACCAGAAATGACAACAGCCCTGTGCTCAACAACTTCCAGATCCTCTTCAACAACTATGTATCCA  
ACCGTTCAGACACCTTCCCGTCGGGCATTATTGGGCGCATCCCAGCTTATGACCCCGATGTCTCCGACCACCTCT  
TCTACTCCTTTGAGCGTGGCAATGAGCTGCAGCTGCTGGTAGTCAACCAGACCAGTGGGGAGCTGCGACTCAGCC  
GAAAGCTAGACAATAACCGCCCACTGGTGGCCTCCATGTTGGTGAAGTGTACAGATGGCCTGCACAGCGTGACGG  
CGCAGTGTGTGCTGCGCGTGGTCATCATCACGGAGGAGTTGCTGGCCAACAGCCTGACCGTGCGCCTTGAGAACA  
TGTGGCAGGAGCGCTTCTGTACCGCTGCTGGGCCGCTTCTTCGAGGGCGTGGCTGCGGTGCTCGCTACGCCCG  
CTGAGGACGTCTTCATCTTCAACATCCAGAACGACACAGACGTAGGGGGCACCGTGCTCAATGTGAGTTTCTCGG  
CGCTAGCTCCACGTGGGGCCGGGGCGGGCGCTGCAGGGCCCTGGTTTCACTCCGAGGAGCTGCAGGAGCAGTTGT  
ACGTGCGCCGGGCGGGCGCTGGCGGCTCGCTCCCTGCTCGACGTACTGCCCTTCGACGACAACGTGTGCCTGCGAG  
AGCCCTGTGAGAACTACATGAAAATGCGTGTCCGTGCTCCGCTTTGACTCGTCCGCGCCCTTCTGGCCTCGGCCT  
CCACGCTGTTCCGACCCATCCAGCCCATCGCTGGCCTGCGCTGCCGCTGCCCGCCCGGATTACGGGAGACTTTT  
GCGAGACCGAGCTCGACCTCTGCTACTCCAACCCATGTGCAACGGCGGAGCCTGCGCGCGGCGCGAGGGAGGCT  
ACACGTGCGTCTGCCGCCCCGCGCTTACCAGGAGAGGACTGCGAGCTGGACACCGAGGCCGGCCGCTGCGTGCCGG  
GCGTCTGCCGCAACGGGGGACCTGCACCGACGCGCCCAACGGCGGCTTTGCTGCCAGTGCCCGGCAGGCGGCG  
CCTTCGAGGGCCCCGCGCTGCGAGGTGGCTGCGCGCTCCTTCCCGCCAGTTTCTGTTGCTCATGTTTCGCGGCTGC  
GGCAGCGATTCCACCTTACGCTGTCCCTCTCGTTGCGGACAGTGCAGCAGAGCGGGCTGCTCTTCTACAACGGGC  
GCCTGAACGAGAAGCAGCACTTCTTGGCCCTGGAAGTCTGGCTGGCCAAGTGGGCTCACATATTCACGGGTG  
AATCCAACACCGTGGTTCAGCCCCACAGTTCCAGGGGGCTTGAGTGACGGGCAATGGCATAAGTGCATCTGAGAT  
ACTACAACAAGCCCCGGACAGATGCCCTAGGGGGTGCACAGGGCCCCCTCCAAGGACAAGGTGGCTGTGCTAAGCG  
TGGATGATTGTGATGTGGCCGTGGCTCTGCAGTTTGGTGTGAGATTGGCAACTACTCATGCGCGGCTGTGCTG  
TGCAAACAAGCTCCAAGAAGTCCCTGGACCTGACGGGGCCCTTCTTCTGGGAGGTGTCCCCAACCTCCCCGAGA  
ACTTCCCCGTATCCATAAGGACTTCATCGGCTGTATGCGGGACCTGCACATTGATGGCCGCGGAGTGACATGG  
CGGCTTTTGTGCAATAATGGCACCATGGCAGGCTGCCAAGCCAAGCTACACTTTTGTGACTCAGGCCCTGCA  
AGAACAGTGGCTTCTGCTCGGAGCGCTGGGGCAGCTTCAGCTGCGACTGCCCTGTGGGCTTCGGCGGCAAGACT  
GTCAGCTTACTATGGCCCATCCCCACCATTTCCTGGCAACGGCACACTGAGCTGGAAGTTTGAAGTGACATGG  
CTGTGTCTGTGCCATGGTACCTGGGGCTGGCATTTCGGACACGGGCAACGCAGGGGGTCTGATGCAAGTGACAGG  
CTGGGGCACACAGCAGCTCCTTTGCCAGCTAGATCGGGGGTACTGTCTGTGACAGTGACCAGGGGCTCGGGCC  
GTGCTTCCCATCTCCTTCTGGACCAGGTGACTGTGAGTGATGGCCGTGGCAGATCTGCGGCTGGAGTTGCAGG  
AGGAACCAGGTGGCCGGCGGGGCCACCATGTCCTTATGGTCTCACTGGACTTTAGCCTCTTCCAGGACACCATGG  
CGGTGGGGAGTGAGCTGCAGGGCCTGAAGGTAAAGCAGCTCCACGTGGGAGGCCTGCCCCCGGAGTGACAGG  
AGGCTCCTCAGGGTCTGGTTGGCTGCATCCAGGGGGTGTGGCTCGGCTCCACACCCTCTGGCTCCCCGGCCCTGC  
TACCCCCAGCCACCGAGTGAATGCGGAGCCTGGCTGTGTTGTGACCAACGCCTGTGCCTCTGGGCCCTGCCAC  
CTCACGCAGACTGCCGGGACCTCTGGCAGACCTTTTCTTGACCTGCCAGCCAGGTTACTACGGCCAGGCTGTG  
TGGATGCCCTGCCTCCTGAACCCCTGTGAGAACCAGGGATCATGCCGGCACCTGCCAGGAGCCCCCATGGCTATA  
CCTGTGACTGTGTGGGTGGCTATTTGCGGCACCACTGTGAGCACAGGATGGACCAGCAGTGCCACGGGGCTGGT  
GGGGGAGCCCAACCTGTGGCCCTGCAACTGTGATGTTTCAAAAGGTTTGTATCCCAACTGCAACAAGACAAATG  
GGCAGTGTCACTGCAAGGAGTTCCACTACCGACCGGGGAGTGACTCTTGCTCCCATGTGACTGCTACCCCTG  
TGGGCTCCACCTCGCGCTCATGTGCACCCACAGCGGGCAGTGCCCTGTGCGCCAGGAGCCCTTGGCCGCCAGT  
GCAACAGCTGTGACAGTCCCTTCGACAGAGGTGACAGCCAGCGGCTGCCGGGTGCTCTATGATGCCCTGCCCTAAGT  
CCCTGAGATCTGGTGTGTGGTGGCCCCAGACAAAGTTTGGCGTCTGGCCACAGTGCCCTGTCCCGGGGGGGCC  
TGGGTGCTGCTGTGCGGCTGTGTGATGAGGCCAGGGTTGGCTGGAGCCCGACCTCTTCAACTGTACCTCCCCTG  
CCTTTCGAGAGCTCAGTCTGCTGCTGGATGGCCTAGAGCTGAACAAGACGGCACTGGATACCATGGAGGCCAAGA  
AGCTGGCTCAGCGGCTACGGGAGGTGACTGGCCACACTGACCACTATTTAGCCAAGATGTTGAGTCACTGCCC  
GCCTGCTGGCCACCTGCTGGCCTTCGAGAGCCATCAGCAGGGCTTCGGGCTGACAGCCACACAGGATGCCACT  
TCAATGAGAATCTGCTGTGGGCCGGCTCTGCACTGCTTGGCCAGAGACAGGGGACTGTGGGGCGGCGTGGGGC  
AGCGGGCCCCCTGGGGGCTCCCCAGGCAGCGCGGACTGGTGAGGCACCTGGAGGAGTATGCAGCCACACTCGCAA

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**FIGURE 1132C**

GGAATATGGAAC TCACATACCTGAATCCCATGGGGCTGGTGACGCCTAATATCATGCTCAGCATTGACCGCATGG  
AGCACCACAGTTCTCCCCGGGGGGCCCGTCGCTACCCTCGCTACCATAGCAACCTCTTTTCGAGGCCAGGATGCCT  
GGGATCCTCACACCCATGTGCTGCTGCCCTTCCAGTCCCCACGGCCATCCCCATCTGAAGTTCTGCCCACAAGCA  
GCAGCATAGAAAAC TCACCACCTCAAGTGTGGTCCCCCACCAGCCCCGCCAGAGCCAGAGCCTGGGATCTCCA  
TTATCATTCTCCTCGTTTACCGCACCTTAGGGGGACTGCTCCCTGCCCAGTTCCAGGCAGAACGCCGAGGTGCCA  
GGCTTCCTCAGAACCCCGTCATGAAC TCCCCGGTGGTCAGCGTGGCTGTGTTCCACGGACGCAACTTCCTAAGGG  
GAATCCTGGAGTCCCCCATCAGCCTAGAGTTTCGCCTGCTACAGACAGCGAATCGGAGCAAGGCGATCTGTGTGC  
AGTGGGACCCACCTGGCCTGGCGGAGCAGCATGGTGTGTGGACAGCACGGGACTGCGAGCTGGTGCACAGGAATG  
GGTCCACGCACGGTGTGCTGTCAGCCGGACAGGGACCTTTGGGGTCTCATGGATGCCTCTCCCCGTGAGAGGC  
TGGAGGGCGACCTGGAGCTGCTGGCTGTGTTACCCACGTGGTCTGTGGCTGTGTCTGTGGCTGCGCTGGTGTGA  
CTGCAGCCATCCTGCTGAGCCTGCGCAGCCTCAAGTCCAATGTGCGTGGGATCCATGCCAATGTGGCAGCCGCC  
TGGGGGTGGCAGAGCTCCTCTTCTGCTGGGGATTACAGGACCCACAATCAGCTGGTGTGCACTGCAGTCGCCA  
TCCTCCTGCACTACTTCTTCTCAGCACCTTCGCGTGGCTCTTCTGTGAGGGGCTGCACCTCTACCGCATGCAGG  
TTGAGCCACGCAACGTGGACCGCGCGCCATGCGCTTCTACCATGCCCTGGGCTGGGGCGTCCCTGCTGTGTGC  
TGGGCCTTGCTGTGGGCCTGGACCTGAGGGCTATGGGAACCTGACTTCTGCTGGATCTCAGTCCACGAGCCCC  
TCATCTGGAGCTTTGCTGGCCCTGTTGTCTTGGTCTAGTGATGAACGGGACCATGTTTCTCCTCGCTGCCCGCA  
CATCCTGCTCCACAGGGCAGAGGGAGGCCAAGAAGACCTCTGCACTGACCCTTCGCAGCTCCTTCTGCTGCTTC  
TGCTGGTCAGTGCCTCCTGGCTCTTGGGCTCCTGGCAGTCAACCACAGCATCCTAGCCTTCCACTACCTCCATG  
CTGGACTCTGCGGCCTCCAGGGCCTGGCGGTGCTGCTGCTCTTCTGTGCTCTAAATGCAGATGCTCGGGCTGCCT  
GGATGCCAGCCTGTCTGGGCAGGAAGGCAGCGCCTGAGGAGGCAAGGCCAGCACCTGGGCTGGGACCTGGGGCCT  
ACAACAACACGGCTCTCTTTGAGGAGAGTGGCCTCATCCGCATCACTCTGGGCGCCTCCACCGTCTCCTCTGTGA  
GCAGTGCCCCGCTCCGGCCG3ACCCAGGACCAGGACAGCCAGCGGGGCCGAGCTACCTCAGGGACAATGTCTTGG  
TTCGACATGGCTCAGCCGCTGACCACACTGACCACAGCCTCCAGGCTCATGCTGGCCCCACTGACCTGGACGTGG  
CCATGTTCCATCGAGATGCTGGCGCAGACTCCGACTCTGACAGTGACCTGTCTTGGAGGAGGAGAGGTCTCT  
CCATTCCATCTTCAGAAAGCGAGGACAATGGCCGGACGCGGGGGCGCTTCCAACGGCCACTCTGCCGAGCAGCCC  
AGAGTGAGAGGCTCCTCACCCACCCCAAAGATGTGGATGGCAATGACCTCCTGTCTACTGCCCAGCCCTGGGGG  
AGTGCGAGGCGAGCCCCCTGTGCTCTGCAGACTTGGGGCTCTGAAAGGCGCCTGGGGCTGGACACCAGCAAGGATG  
CAGCTAACAACAACAGCCAGACCCGGCCCTGACCAGTGGGGATGAGACTTCTCTGGGCCGGGCCAGCGCCAGA  
GGAAAGGCATCCTGAAGAACCGGTTGCAATACCCACTGGTGCCACAGACCCGAGGTGCCCTGAGCTGTCTTGGT  
GCCGTGCAGCCACCTTGGGCCACCGTGCAGTGCCAGCTGCCTCTTACGGTGCATCTATGCTGGCGGGGGCACGG  
GCAGCCTTTACAGCCAGCCAGCCGCTACTCTTCTAGAGAACAGCTGGACCTGCTCCTCCGGCGGCAACTGAGCC  
GTGAGCGACTAGAGGAAGCCCCTGCCCCTGTTCTACGTCCCCTGAGCCGGCCAGGGTCCCAGGAATGCATGGATG  
CTGCACCAGGCCGACTGGAGCCCAAAGATCGGGGCAGCACCTGCCACGGAGGCAGCCACCTCGGGACTACCCTG  
GCGCCATGGCTGGCCGCTTTCGGGTACGGGATGCGCTCGACTTAGGGGCACCTCGAGAGTGGTTGAGCACGCTGC  
CTCCGCCCCGCGCACCCGGGACCTTGACCCACAGCCCCACCTCTGCCCTGTCTCCCAGCGGCAACTCTCAA  
GGGACCCCTCTTGCCATCCCGGCCGCTGGACTCTCTGTCTAGGAGCTCGAATCTCTGGGAGCAGCTGGACCAGG  
TGCTAGCCGGCACCCCTCACGAGAAGCCCTTGGGCCACTCCCGCAGCTGCTCAGAGCTAGGGAGGACTCGGTCA  
GTGGCCCCAGCCATGGCCCCCTCCACAGAACAGTTGGACATTCTTTCCCTCCATCCTTGCCCTCTTTCAACTCCTCGG  
CCCTCTCCTCTGTGCAATCTTCAAGCACACCCTTGGGCCCTCACACCACTGCCACACCTTCTGCCACAGCCTCTG  
TGCTTGGGCCCTCCACGCCACGTTCTGCCACGTCTCACAGCATCTCGGAGCTGTGCGCCAGACTCAGAAGTTCCCA  
GAAGTGAGGGTCACTCTCTGAGGGGATGACGGCGTGGACGAGGAACAGCTGAGGGCGACAGAGGATCTAGGCTAAC  
AGGAGAGACTCCAGGAGTGGGGGCAGATCCCAAGGCAGCCTCCTGCTCCCCAGTGGTGGGTGCCCCAGCTCTACC  
TGGTGTGGCAGGGCTGAGGCTCCATGTGCATCTGTGAGCATGCGTGTGACAGGTGCAGAGACGGGGGACTGGAGG  
GAGACTTTTATACGTTTTGTACCTTTGTAAACAGAGAGATGCTTATGTTATTTTTTTCAGCTTTTCTGTCTCCTGGG  
GGGTTTGAGGCTGGGCTGGGAGGGGGAGGGAGATAGAGGGAGAGATGCAGTTTGACCCATTTGGGTCTTGAGCA  
AACCTATGCTCATCTCTCTCTCCTTCTGGGGTGGACTCAGATGGGTGGGACACATGCCTTCTCCCCCTATTTC  
CACCCCAAGTTGATCTGAGTATCGTCAGGGGCCCAAAGTACAGAATTGTTCTTTGCTTTTTATTGAATGCTCCA  
AAGGCCAAACTTCTGGGGCTGGGGGTGGTCTTGGAACAGGGGTCTCTGACTTCTCATGGGGGCTTGCTCAT

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**FIGURE 1132D**

ACCGCCCCTCCTGGTGGATGTGTGTGTTTATTATGTGGAGTCCCTGCCACTTACTGCCTTATGACCTAGGACTGA  
TGCTGTGGGGTGCTGGTGGAGCAGCTGATGTCGTGTTTACAGAGCAAGGCTTCCCTGTCTCCACGGGGAGGGGC  
TCGGGCCTCTAGTCAGACATTCCCTGCAGAGGGTCGGTGGAGGGGTCATTACCTGCCCCCTGCAGCAAGCAAAAGT  
TGTCTGTGGTGCCATTTGATTCCCTGACACTGCCCCCTGCTTGAATTGATTCCGAAGGGTAGGGTGGGAAGGTGA  
GCAAAGGGAGCAGAAACAAGGGAATTCAAGACCCAGAATGTAGGTGCCACTGCCTCCTATGTTTACAGGATCCTC  
CGTGGCCCTAGGCACCTGGGCTGCAGGAAGTGACTCCGTTCCACTCCTCCTTTATTCCCTTAAAAAGGGAAAAAT  
GACTGTTACGACCCTGTTACAAAACTCTTACTTTTGCTATTTTGTCTGCTGTCCAGAACTGAAGACTTTAAAT  
TTTGTTACTGTTTACAAGTCCAGATTCAAAAAATGTTTTTACTTTGTTTACAACCTCAAACTTTGAGTTTTACAC  
TTTGTTTACAGTAGATAATTTTTTTTCCCTTTGTTTCCAAGTGAAAGGTAGGGAAAGTGGGAGAGGGACTTGGAGG  
ACCCACCTGTGAGGACCCTGACCTGGCCATCTTGAGGGGTTTTCTAACCCCCAGGTCTCCCAGGCCGAAGGTCAG  
CCTTGAGTCCCGTTTAAACAGCAGATCCAGAAGACCTTGAGAGTAGGCGTCCTCTAACCACGGGGGAGAGTGGCTG  
TGCAGGGCTGGGGGGTGGTCTGTGCAGACACCTCCTCACCCACCACCCCATGCATACTCTTGGGAAGCAGCTTCC  
TGGGAGATTAGAAATTCTACTTCCCTGACTGGAGCTAAATCCCACCAGCCAGGACCCAACTCTCCTTACCGAGA  
AGGACCCAGCTCTTGAAGGGCTGAGTGGCCTGCTGGGGGTGGGAGGGTGTCTTTACTATGTCTAGGTTTCGTA  
GATGCCCCCTCTCTGGGGTTCCCCCTCCAGCCCAGCGGCCCTCTTTCCTGTCTGTGTAAATTGTTCCGTGAAGC  
CGCGCTCTGTTTTGGGAATAAACTTCTATAGAAAACAAA

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**FIGURE 1133**

MMARRPPWRGLGERSTPILLLLLLLSLFFLSQEELGGGGHQGWDPGLAATTGPRAHIGGGALALCPRESSGVREDGG  
PGLGVREPIFVGLRGRRQSARNRSGPPEQPNEELGIEHGVQPLGSRERETGQGPSSVLYWRPEVSSCGRTGFLQR  
GSLSPGALSSGVPGSGNSSPLPSDFLIRHHGPKPVSSQRNAGTGSRKRVGTARCCGELWATGSKGQGERATTSGA  
ERTAPRRNCLPGASGSGPELDSAPRTARTAPASGSAPRESRTAPEPAPKMRMRSGLFRCRFLPQRPGPRPPGLPA  
RPEARVTSANRARFRRAANRHPQFPQYNYQTLVPENEAAGTAVLRVVAQDPDAGEAGRLVYSLAALMNSRSLEL  
FSIDPQSGLIRTAALDRESMERHYLRVTAQDHGSPRLSATTMVAVTVADRNDHSPVFEQAQYRETLRENVEEGY  
PILQLRATDGDAPPNANLRYRFVGPAAARAAAAAAFEIDPRSGLISTSGRVDREHMESYELVVEASDQGQEPGPR  
SATVRVHITVLDENDNAPQFSEKRYVAQVREDVRPHTTVLVRTATDRDKDANGLVHYNIISGNSRGHFAIDSLTG  
EIQVVAPLDFEAEREYALRIRAQDAGRPLSNNTGLASIQVVDINDHIPFVSTPFQVSVLENAPLGHSVIHIQA  
VDADHGENARLEYSLTGVAPDTPFVINSATGWVSVSGPLDRESVEHYFFGVEARDHGSPLSASASVTVTVDVN  
DNRPEFTMKEYHLRLNEDAAVGTSSVSVTAVDRDANSASISYQITGGNTRNRFAISTQGGVGLVTLALPLDYKQER  
YFKLVLTASDRALHDHCYVHINITDANTHRPVFQSAHYSVSVNEDRPMGSTIVVISASDDDVGENARITYLLEDN  
LPQFRIDADSGAITLQAPLDYEDQVYTLAITARDNGIPQKADTTYVEVMVNDVNDNAPQFVASHYTGLVSEDAP  
PFTSVLQISATDRDAHANGRVQYTFQNGEDGDGDFTEPTSGIVRTVRRLDREAVSVYELTAYAVDRGVPPLRTP  
VSIQVMVQDVNDNAPVFPAAEEFEVRVKENSIVGSSVVAQITAVDPDEGPNAHIMYQIVEGNIPELFQMDIFSGELT  
ALIDLDEYARQEYVIVVQATSAPLVSRATVHVLVDQNDNSPVLNNFQILFNMYVSNRSDTFPSGIIGRIPAYDP  
DVSDHLFYSEFERGNEQLLVVNQTSSELRLSRKLDNNRPLVASMLVTVTDGLHSVTAQCCLRVIITEELLANSI  
TVRLENMWQERFLSPLLGRFLEGVA AVLATPAEDVFI FNQNDTDVGGTVLNVFSALAPRGAGAGAAGPWFSSSE  
ELQEQLYVRAALAARSLLDVLFPDDNVCLREPCENYMKCVSVLRFDSSAPFLASASTLFRPIQPIAGLRCRCPP  
GFTGDFCETELDLCYSNPCRNGGACARREGGYTCVCRPRFTGEDCELDTEAGRCVPGVCRNGGTCTDAPNGGFRC  
QCPAGGAFFEGPRCEVAARSFPSSFMFRGLRQRFHLTSLSFATVQQSGLLFYNGRLNEKHDFLALVLVAGQVR  
LTYSTGESNTVVSPTVPGGLSDGQWHTVHLRYYNKPRTDALGGAQGPSKDKVAVLSVDDCDVAVALQFGAEIGNY  
SCAAAGVQTSSKSLDLTGPLLLGGVPLNLPENFPVSHKDFIGCMRDLHIDGRRVDMAAFVANNGTMAGCQAKLHF  
CDSPGCKNSGFCSERWGSFSCDCPVGFGGKDCQLTMAHPHHFRNGTLSWNFGSDMAVSVPWYLGALFRTATQG  
VLMQVQAGPHSTLLCQLDRGLLSVTVTRGSGRASHLLDQVTVSDGRWHDRLRLLEQEEPGRGRGHVLMVSLDFS  
LFQDTMAVGSELQGLKVKQLHVGGGLPPGSAEEAPQGLVGC IQGVWLGSTPSGSPALLPPSHRVNAEPGCVVTNAC  
ASGPCPPHADCRDLWQTFSTCQPGYYGPGCVDACLLNQCQNGSCRHLPGAPHGYTCDCVGGYFGHHCEHRMDQ  
QCPRGWWGSFTCGPCNCDVHKGFDPNCNKTNQCHCKEFHYRPRGSDSCLPCDCYPVGSTSRSCAPHSGQCPCRP  
GALGRQCNSCDSFPAEVTASGCRVLYDACPKSLRSGVWVPQTKFVGLATVPCPRGALGAAVRLCDEAQGWLEPDL  
FNCTSPAFRELSLLLDGLELNKTALDTMEAKKLAQRLREVTGHTDHYFSQDVRVTARLLAHLLAFESHQOQFGLT  
ATQDAHFNENLLWAGSALLAPETGDLWAALGQRAPGGSPGSAGLVRHLEEYAATLARNMELTYLNPMLVTPNIM  
LSIDRMEHPSSPRGARRYPRYHSNLFQDAWDPHTHVLLPSQSPRPSSEVLPTSSSIENSTTSSVPPPPAPPE  
PEPGISIIILLVYRTLGGLLPAQFQAERRGARLPQNPVMNSPVVSVAVFHGRNFLRGILESPISLEFRLLQTANR  
SKAICVQWDPPGLAEQHGVTARDCELVHRNGSHARCRCRTGTFGVLMDasPRERLEGDLELLAVFTHVVAVS  
VAALVLTAAILLSRLSLKSNVRGIHANVAAALGVAELLFLLGIHRTNQLVCTAVAILLHYFFLSTFAWLFLVQGL  
HLYRMQVEPRNVDRGAMRFYHALGWGPVAVLLGLAVGLDPEGYGNPDFCWISVHEPLIWSFAGPVVLVIVMNGTM  
FLLAARTSCSTGQREAKKTSALTLRSSFLLLLLLVASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLLFVCLN  
ADARAAMWPAACLGKAAPEEARPAPGLPGAYNNTALFEESGLIRITLGASTVSSVSSARSGRTOQDSQRGRSY  
LRDNVLVRHGSAADHTDHSQAAGPTDLDVAMFHRDAGADSDSDSLSEERSLSIPSSSEEDNGRTRGRFQR  
PLCRAAQSERLLTHPKDVGNDLLSYWPALGECEAAPCALQTWGSERRGLDTSKDAANNQPDALTSGDETSI  
GRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLSQPASRYSSREQLDLL  
LRRQLSRERLEEAPAVLRPLSRPGSQECMDAAPGRLEPKDRGSTLPRRQPPRDYPGAMAGRFGSRDALDLGAPR  
EWLSTLPPRRTRDLDPPPLPLSPQRQLSRDPLPSRPLDSLRSNSREQLDQVPSRHPSREALGLPLQLLR  
AREDSVSGPSHGPFSTEQLDILSSILASFNSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELS  
PDSEVPRSEGHs

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**FIGURE 1134**

TACTGACTTTTCAGCACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC  
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT  
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG  
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAAATAGACTGTC  
CCGGTTCCCCGCCAGGAGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCCCAG  
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGGCGGCGTCCGTGGTCTGTGCGGGCCGCTACC  
GCCGGGGCACAAAGTGCTATTGCGCGCCCGCCGCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA  
ACCTTCGCTCAGGCGCTCCAGTTCGTGCCGGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC  
GAGCAGTCTCTCAGCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT  
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCCTGGAGAAG  
GAGGTGGAGAGCATGGGGGGCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG  
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGTCAGAACTGTAGTCTGGAAGACTCACAGATT  
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC  
CTGCATGCCACAGCATTCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG  
TCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGCTGGCAGCAGCTGGAGGA  
GTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT  
GTGCCCCTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGCCAC  
GTGGCCATTGCAGTAGAGGGTCTTGCTGGGCCAGCCCGGACAGTGTGGCCTTGCAAGTGGCCAATGCCATCATC  
GGCCACTATGACTGCACTTATGGTGGTGGCGTGCACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAG  
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC  
CGAATGAAAATCGATGACATGATGTTTCGTCTGCAAGGGCAGTGGATGCGCCTGTGTACCAGTGCCACGGAGAGT  
GAGGTGGGGCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG  
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGCATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTG  
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC  
ATTGAGCAGCTCCAGACTACAACCGGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGCGGGGAAGCCTATGT  
AAGCAAGAGGGCAGGGCCGGGGTTTGTGGTCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG  
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

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**FIGURE 1135**

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCTVGVWI  
DVGSRFETEKNNAGAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI  
VQNC SLED SQIEK ERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPSENV RKLSRADLTEYLS THYK  
APRMV LAAAGGVEHQQLDLAQKHLGGIPW TYAEDAVPTLT PCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD  
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDDMMFVLQGQ  
WMRLCTSATESEVARGKNILRNALVSHLDGTT PVCEDIGRSL LTYGRRIP LAEWESRIAEVDASVVREICSKYIY  
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

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**FIGURE 1136**

TCCGACTCATCCCGGCCCCGGGATGGCGTCCCCACGGGAATTGACACAGAACCCCTGAAGAAGATCTGGATGCC  
ATACAGCAATGGGCGGCCCGCTCTGCACGCTTGCCAGCGCGGTGTGTGCATGACCAACTGCCCAACTCTCATTGT  
CATGGTGGGCCTGCCCCGCCAGGGGCAAGACCTACATCTCCAAGAAGCTGACTCGATACCTGAAGTGGATTGGTGT  
GCCCCACTCGGGAGTTCAATGTTGGCCAGTATCGCCGGGACGTGGTCAAGACCTACAAATCTTTTGAATTTTTTCT  
CCCCGACAATGAAGAGGGCCTGAAAATCAGGAAGCAGTGTGCCCTGGCAGCCCTCCGTGACGTCCGGCGGTTCTT  
TAGTGAGGAGGGGGGACATGTGGCGGTTTTTGTATGCCACAAACACCACCCGAGAACGGAGAGCGACCATCTTTAA  
TTTTGGAGAACAGAATGGCTACAAGACCTTTTTTGTGCGAGTCCATCTGTGTGGATCCTGAGGTCATAGCTGCCAA  
CATCGTGCAAGTGAAGTGGGAGCCCTGACTATGTCAACCGCGCAGAGTGATGAGGCTACGGAGGACTTCATGAG  
GCGCATTGAGTGCTATGAGAACTCCTACGAGTCGCTAGATGAGGACCTGGATAGGGACCTGTCTATATCAAGAT  
CATGGATGTGGGCCAGAGCTACGTGGTGAACCGTGTGGCTGACCACATCCAGAGCCGCATCGTATATTACCTCAT  
GAACATCCACGTGACCCCCGCTCCATCTACCTCTGCCGGCAGGGGAGAGCGAGCTCAACCTCAAGGGCCGGAT  
TGGCGGGGACCCAGGACTGTCCCCTCGGGGAGGGAGTTTGCCAAGAGTCTAGCCCAGTTCATCAGTGACCAAAA  
TATCAAGGATCTGAAGGTCTGGACAAGCCAGATGAAGAGGACAATCCAGACGGCTGAGGCACTGGGTGTGCCCTA  
TGAACAGTGGAAGTCTCTCAACGAGATCGATGCGGGCGTCTGTGAGGAAATGACCTACGAGGAAATTCAGGATAA  
TTATCCACTGGAGTTCGCCCTGCGGGACAGGACAAGTACCGGTACCGGTACCCTAAAGGGGAGTCTACGAGGA  
CCTGGTCCAGAGACTGGAGCCTGTCTCATGAGCTGGAGAGGCAAGAGAATGTGCTGGTCTATCTGCCACCAGGC  
TGTGATGCGCTGCCTGTGGCCTACTTCTCGACAAGGCAGCAGAACAGCTGCCCTACCTCAAGTGTCCGCTGCA  
CACAGTCTGAAGCTGACTCCTGTGGCATATGGTTGTAAAGTGGAGTCCATATTCCTGAACGTGGCTGCTGTGAA  
CACGCACCGGGACAGGCCTCAGAACGTGGACATCTCAAGACCTCCAGAGGAAGCCCTTGTCACGGTGCCTGCTCA  
CCAGTGACCATGTTTCATCCACTGTGACCACTAGGCAGGCACTGCTCTCTGCAGAGGGGGTCAATCCAGGCCCTCC  
AGTGTGTGTGATAGTCACCATGCCATGCAGGGATATTCTTGAAGCCACACATGGCTGGCGGAACCCAGAGCCCCC  
ACCCAGCCACCTGGCTCTTTGTTGACAGTCGGCGACAAGGTTGTGCGTGGCTCCTGACCTGCTGCTAAGAGTC  
ACTTGACCAGACTGCATCTGCATGGGCTGCGCGGAGGTTGCCCAGCCCCAGTTTCTTCCGGCGCAGCTCTTAGGT  
GTTCACTCTCGCCAGCTCAGTTGGCTTTGTGAAGTGTGAAACCCTACAATGTGAAAGGAAAGTGCTTGCTGTGAT  
GTTCTACTGTGGCCAGCTGCCCAGCATGGACCTGGTGACTCTCCACAGGGCCTCTACCATCCTCTCTGTGGCC  
ACTTCCTGAGCCAGAGGCCAGGTCTTCATGGGGCCCTGAGCTTCTGCTGCCTCTGGTGAGAGGGAGAGCCCTTCC  
CATCCTTACCCACCAGGAAGTAGAGCCCCAACACAGCAGATGCTTCCTGGGCAGCCACTGGCCAGGCCGTTGTA  
TCCATGTCACCCCTTAGTTGTGGGCATTTCATGAAAGCAATGCGCTTGCTTCAGCACATTGGGATGCACAGAAACGT  
GAGGGCAGGGGGGAGTTGTGGTGGCCCCCTCCCCAGTTGTGCATGTACCCGGCTACTTAGGTATGCTTAGGGGAG  
CTGGTGGCCAGGGGTGCCCTTCAGGCCTGCTCTCACAGTGAAACCACTTCAAGACAGGGCAGGAAGTTACCTTC  
CTGGTGCACACACCGAAGTGCTCGAGGGAGAGGCTGCCGCCCTCTCCCCTTCCCTGGCTGTGGACACTGGCAG  
CCAATGGGGAGGCGGCTCTCCCCTGTTGCTGCCCGTGTCCACACAGGAATGTACACTGGTGGCAGAAACATGCA  
TTTGCCATAAATAATTAGAAAC

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**FIGURE 1137**

AGCAATGGCTGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCATAGT  
CTTCAGCAAGGACCAGTTCCCAGAGGTGTATGTGCCCACAGTGTTTGAGAACTATGTGGCAGATATCGAGGTGGA  
TGGAAGCAGGTAGAGTTGGCTTTGTGGGACACAGCTGGGCAGGAAGATTATGATCGCCTGAGGCCCCCTCTCCTA  
CCCAGATACCGATGTTATACTGATGTGTTTTTCCATCGACAGCCCTGATAGTTTGTAGAAAACATCCCAGAAAAGTG  
GACCCCAGAAGTCAAGCATTCTGTCCCAACGTGCCCATCATCCTGGTTGGGAATAAGAAGGATCTTCGGAATGA  
TGAGCACACAAGGCGGGAGCTAGCCAAGATGAAGCAGGAGCCGGTGAAACCTGAAGAAGGCAGAGATATGGCAAA  
CAGGATTGGCGCTTTTGGGTACATGGAGTGTTTACAGCAAAGACCAAAGATGGAGTGAGAGAGGTTTTTGAAATGGC  
TACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAAATCTGGGTGCCTTGTCTTGTGAACCTTGCTGCAAG  
CACAGCCCTTATGCGGTTAATTTTGAAGTGCTGTTTATTAATCTTAGTGTATGATTACTGGCCTTTTTTCATTTAT  
CTATAATTTACCTAAGATTACAAATCAGAAGTCATCTTGCTACCAGTATTTAGAAGCCAACTATGATTATTAACG  
ATGTCCAACCCGCTCTGGCCACCAGGGTCCTTTTGACACTGCTCTAACAGCCCTCCTCTGCACTCCACCTGACA  
CACCAGGCGCTAATTCAAGGAATTTCTTAACTTCTTGCTTCTTTCTAGAAAGAGAAACAGTTGGTAACTTTTGTG  
AATTAGGCTGTAACCTACTTTATACTAACATGTCTGCCTATTATCTGTCAGCTGCAAGGTAATCTGGTGAGTCA  
CCACTTCAGGGCTTTACTCCGTAACAGATTTTGTGTCATAGCTCTGGGGTGGGCAGTTTTTTGAAAATGGGCTC  
AACCAGAAAAGCCCAAGTTCATGCAGCTGTGGCAGAGTTACAGTTCTGTGGTTTCATGTTAGTTACCTTATAGTT  
ACTGTGTAATTAGTGCCACTTAATGTATGTTACCAAAAATAAATATATCTACCCAGACTAGATGTAGTATTTTT  
TGTATAATTGGATTTCTAATACTGTCATCCTCAAAGAAAGTGATTGGTTTTTTAAAAAAGAAAGTGATTGG  
AAATAAAGTCAGATGGAAAATTCATTTTTTAAATCCCGTTTTGTCACTTTTTCTGATAAAAGATGGCCATATTA  
CCCCTTTTCGGCCCCATGTATCTCAGTACCCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAG  
GCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCATCTGGCTCTAATTCACAGTGCTC  
TTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCAGTTCTCATGGGTGGCACTCAGTCTCTCTTCT  
CTCCAGCTGACTAACTTTTTTTCTGTACCAGTTAATTTTTCCAACCTACTAATAGAATAAAGGCAGTTTTCT



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**FIGURE 1138**

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYP  
DTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDHTRRELAKMKQEPVKPEEGRDMANR  
IGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL

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**FIGURE 1139**

TGAGCCCCAGCTAAGCGCTGCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTGTGGACTTCGA  
GCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGCTGCTATTAACAGGCA  
CCGGCCCCAGCTCCTGGTGGAACGTTACCATTTCAACATGGGGCTGCTGATGGGAGAGGCTCGGGCTGTGCTGAA  
GTGGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGTCCTCCACCTTCTGGGCCCCAAGTTGGAGGC  
TGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGAAACAGACCGGAGGACGGCAAAAGGATGTGGT  
GGAGAATGGCGAGACTGCTGACCAGACCCTGTCTCTGATGGAGCAGCTCCGGGGGGAGGCCCTTAAGTTCCACAA  
GCCTGGTGAGAACTACAAGACCCAGGCTATGTGGTCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGA  
GATTACTGGTGGGCAGGTACGTACCCGGTTCCCGCCAGAACCCAATGGAATCCTGCATATTGGACATGCCAAAGC  
CATCAATTTCAACTTTGGCTATGCCAAGGCCAACAATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGA  
GAAGGAGGAAGCAAAGTTCTTCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCAC  
ATATGCGTCTGACTATTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGCAGGGGTCTGGCTTATGTGTG  
CCACCAGCGAGGAGAGGAGCTCAAAGGCCATAATACTCTGCCTTCACCCTGGAGAGACCGTCCCATGGAGGAGTC  
ACTGCTGCTCTTTGAGGCAATGCGCAAGGGCAAGTTTTTCAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGAT  
GGAGGATGGCAAGATGGACCCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAATGGTG  
CATCTATCCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCACTCTGCACCAA  
GGAATTCCAGGCCCG

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**FIGURE 1140A**

GAAGGCAGTTTCCGGAGGGAAGGGGTAGGGTTGGGGTGGGGGCGCTCTCCGCCCGGTGTTGCGCTCCTTCCCAGA  
ATCCGCTCCGGCCTTTTCCTTCCTGCCGCGATTCCCAACTTTGCTCAAAGTCGCTGGACTCTAAGCTGTCCGAGGG  
ACCGCTGGACAGACCTGGGAACTGACAGAGGGCCTGGAGGGAAACAGGCCAAAGACCCACAGGCAGAGTTGACAC  
GGAACCCCAAAGCAAGGAGGAGGGCTCGGGCCCGAGACCGTTCACCTCCCCTTATCCCTGTTCCCTCTTTCAGGA  
TGGAGCTGACCTCAAGGGAAAGAGGGAGGGGACAGCCTCTGCCCTGGGAACTTCGACTGGGCCTACTGCTAAGCG  
GTGAGAGGGCCTGGTGGGGGCTGGGGGTTGTGGAATGTGATGGTAGTCCCTGGGAGTTGCCCTTGGGGCACATGA  
GGTGGAGCCACTGGATAGGAACTCCACGGAAGTACTGAGCTACTGTCCCCAGTGTGCTGCCACACTGGCACA  
GGCCCCCTGCCCCCGATGXXX  
XXXACCACAGCGCGGGCAGCCTGGTGGCAGTCAG  
AGAATGGTATCCCTGCGGTACCATCCAGCTGGACCTGGAGGCTGAGTTTCATTTACACACCTCATTATGACCT  
TCAAGACATTTGCCCCCTGCTGCCATGCTGGTGGAAACGCTCAGCAGACTTTGGCCGCACCTGGCATGTGTACCGAT  
ATTTCTCCTATGACTGTGGGGCTGACTTCCCAGGAGTCCCCTAGCACCCCCACGGCACTGGGATGATGTAGTCT  
GTGAGTCCCCTACTCAGAGATTGAGCCATCCACTGAAGGCGAGGTCACTATCGTGTGCTGGACCCTGCCATCC  
CTATCCCAGACCCCTACAGCTCACGGATTGAGAACCTGTTGAAGATCACCAACCTACGGGTGAACCTGACTCGTC  
TACACACGTTGGGAGACAACCTACTCGACCCACGGAGGGAGATCCGAGAGAAGTACTACTATGCCCTCTATGAGC  
TGGTTGTACGTGGCAACTGCTTCTGCTACGGACACGCCTCAGAGTGTGCACCCGCCCCAGGGGCACAGCCCATG  
CTGAGGGCATGGTGCACGGAGCTTGCAATCTGCAAAACACAACACAGTGGCCTCAACTGCGAGCAGTGTGAGGATT  
TCTATCGTGACCTGCCCTGGCGTCCGGCTGAGGACGGCCATAGTCAATGCTGTAGGAAGTGTGAGTGGCATGGGC  
ACACCCACAGCTGCCACTTCGACATGGCCGTATACCTGGCATCTGGCAATGTGAGTGGAGGTGTGTGTGATGGAT  
GTCAGCATAACACAGCTGGGGCCCACTGTGAGCTCTGTGCGCCCTTCTTCTACCGTGACCCAAACCAAGGACCTGC  
GGGATCCGGCTGTGTGCCGCTCCTGTGATTGTGACCCCATGGGTTCTCAAGACGGTGGTTCGCTGTGATTCCCATG  
ATGACCCTGCACTGGGACTGGTCTCCGGCCAGTGTGCTGCAAAGAACATGTGGTGGGCACCTCGCTGCCAGCAAT  
GCCGTGATGGCTTCTTTGGGCTCAGCATCAGTGACCGCTGCGGCTGCCGGCGTATGTCAATGTAATGCACGGGGC  
ACAGTGCCTGGGAGCACTCCTTGTGACCCCAACAGTGGATCCTGTTACTGCAAACGCTCTAGTGACTGGACGTGGA  
TGTGACCGCTGCCTGCCTGGCCACTGGGGCCTGAGCCACGACCTGCTCGGCTGCCGCCCCCTGTGACTGCGACGTG  
GGTGGTGCTTTGGATCCCCAGTGTGATGAGGGCACAGGTCAATGCCACTGCCGCCAGCACATGGTTGGGCGACGC  
TGTGAGCAGGTGCAACCTGGCTACTTCCGGCCCCCTTCTGGACCACCTAATTTGGGAGGCTGAGGACACCCGAGGG  
CAGGTGCTCGATGTGGTGGAGCGCCTGGTGAACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTTCGTGCGG  
CTACAGGAAGGTGAGACCTGGAGTTCCCTGGTGGCCTCTGTGCCGAAGGCTATGGACTATGACCTGCTGCTGCGC  
TTAGAGCCCCAGGTCCCTGAGCAATGGGCAGAGTTGGAAGTATTGTGACGCTCCAGGGCCTGTGCTGCCAC  
AGCCTGTGTGGGCATTTGGTGCCCAAGGATGATCGCATCCAAGGGACTCTGCAACCACATGCCAGGTACTTGATA  
TTTCCTAATCCTGTCTGCCTTGAGCCTGGTATCTCTACAAGCTGCATCTGAAGCTGGTACGGACAGGGGGAAGT  
GCCCAGCCTGAGACTCCCTACTCTGGACCTGGCCTGCTCATTGACTCGCTGGTGTGCTGCTGCCCCGTGTCTGGTG  
CTAGAGATGTTTAGTGGGGGTGATGCTGCTGCCCTGGAGCGCCAGGCCACCTTTGAACGCTACCAATGCCATGAG  
GAGGGTCTGGTGGCCAGCAAGACTTCTCCCTCTGAGGCTGCGCACCCCTCCTCATCAGCCTGTCCACCCCTCATC  
TACAATGGTGGCCTGCCATGTGAGTGAACCCCTCAAGGTTCACTGAGTTCTGAGTGAACCCCTCATGGTGGTCAG  
TGCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCCCTGGCTACTATGGCTTTGGCCCCACA  
GGCTGTCAAGCCTGCCAGTGCAGCCACGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACAGTGGGCAATGTCTC  
TGTGCAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGGATTCCCTAGCTGCCGGCCA  
TGTGTCTGCAATGGGCATGCAGATGAGTGAACACCCACACAGGCGCTTGCTGGGCTGCCGTGATCACACAGGG  
GGTGAAGCACTGTGAAAGGTGCATTGCTGGTTTCCACGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCC  
TGTCCTGTCTGAAGGCCCTGGGAGCCAACGGCACTTTGCTACTTCTTGCCACCAGGATGAATATTCCCAGCAG  
ATTGTGTGCCACTGCCGGGCAGGCTATACGGGGCTGCGATGTGAAGCTTGTGCCCTGGGCACCTTTGGGGACCCA  
TCAAGGCCAGGTGGCCGGTGCCAAGTGTGTGAGTGCAGTGGGAACATTGACCCAATGGATCCTGATGCCTGTGAC  
CCCCACACGGGGCAATGCCTGCGCTGTTTACACCACACAGAGGGTCCACACTGTGCCCACTGCAAGCCTGGCTTC  
CATGGGCAGGCTGCCCCACAGAGCTGTACCGCTGCACATGCAACCTGCTGGGCACAAATCCGCAGCAGTGGCCA  
TCTCCTGACCAGTGCCACTGTGATCCAAGCAGTGGGCAGTGCCCATGCCTCCCCAATGTCCAGGGCCCTAGCTGT  
GACCGCTGTGCCCCCAACTTCTGGAACCTCACAGTGGCCATGGTTGCCAGCCTTGTGCTGCCACCCAAGCCGG

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**FIGURE 1140B**

GCCAGAGGCCCCACCTGCAACGAGTTACAGGGCAGTGCCACTGCCGTGCCGGCTTTGGAGGGCGGACTTGTTCT  
GAGTGCCAAGAGCTCCACTGGGGAGACCCTGGGTTGCAGTGCCATGCCTGTGATTGTGACTCTCGTGGAATAGAT  
ACACCTCAGTGTACCGCTTCACAGGTCACTGCAGCTGCCGCCCAGGGGTGTCTGGTGTGCGCTGTGACCAGTGT  
GCCCCGTGGCTTCTCAGGAATCTTTCCTGCCTGCCATCCCTGCCATGCATGCTTCGGGGATTGGGACCGAGTGGTG  
CAGGACTTGGCAGCCCGTACACAGCGCCTAGAGCAGCGGGCGCAGGAGTTGCAACAGACGGGTGTGCTGGGTGCC  
TTTGAGAGCAGCTTCTGGCACATGCAGGAGAAGCTGGGCATTGTGCAGGGCATCGTAGGTGCCCGCAACACCTCA  
GCCGCTCCACTGCACAGCTTGTGGAGGCCACAGAGGAGCTGCGGCGTGAAATTGGGGAGGCCACTGAGCACCTG  
ACTCAGCTCGAGGCAGACCTGACAGATGTGCAAGATGAGAACTTCAATGCCAACCATGCACTAAGTGGTCTGGAG  
CGAGATAGGCTTGCACTTAATCTCACACTGCGGCAGCTCGACCAGCATCTTGACTTGCTCAAACATTCAAACCTC  
CTGGGTGCCTATGACAGCATCCGGCATGCCCATAGCCAGTCTGCAGAGGCAGAACGTCGTGCCAATACCTCAGCC  
CTGGCAGTACCTAGCCCTGTGAGCAACTCGGCAAGTGCTCGGCATCGGACAGAGGCACTGATGGATGCTCAGAAG  
GAGGACTTCAACAGCAAACACATGGCCAACCAGCGGGCACTTGGCAAGCTCTCTGCCCATACCCACACCCTGAGC  
CTGACAGACATAAATGAGCTGGTGTGTGGGGCACCAGGGGATGCACCCTGTGCTACAAGCCCTTGTGGGGGTGCC  
GGCTGTGAGATGAGGATGGGCAGCCGCGCTGTGGGGGCCCTCAGCTGCAATGGGGCAGCGGCTACAGCAGACCTA  
GCACTGGGCGGGCCCCGGCACACACAGGCAGAGCTGCAGCGGGCACTGGCAGAAGGTGGTAGCATCCTCAGCAGA  
GTGGCTGAGACTCGTCGGCAGGCAAGCGAGGCACAGCAGCGGGCCCAGGCAGCCCTGGACAAGGCTAATGCTTCC  
AGGGGACAGGTGGAACAGGCCAACCAGGAACCTCAAGAACTTATCCAGAGTGTGAAGGACTTCTCAACCAGGAG  
GGGGCTGATCCTGATAGCATTGAAATGGTGGCCACACGGGTGCTAGAGCTCTCCATCCCAGCTTCAGCTGAGCAG  
ATCCAGCACCTGGCGGGTGCGATTGCAGAGCGAGTCCGGAGCCTGGCAGATGTGGATGCGATCCTGGCACGTACT  
GTAGGAGATGTGCGTCTGTGCCGAGCAGCTACTGCAGGATGCACGGCGGGCAAGGAGCTGGGCTGAGGATGAGAAA  
CAGAAGGCAGAGACAGTACAGGCAGCACTGGAGGAGGCCAGCGGGCACAGGGTATTGCCCAGGGTGCCATCCGG  
GGGGCAGTGGCTGACACACGGGACACAGAGCAGACCCTGTACCAGGTACAGGAGAGGATGGCAGGTGCAGAGCGG  
GCACTGAGCTCTGCAGGTGAAAGGGCTCGGCAGTTGGATGCTCTCCTGGAGGCTCTGAAATTGAAACGGGCAGGA  
AATAGTCTGGCAGCCTCTACAGCAGAAGAAACGGCAGGCAGTGCCCAGGGTCTGTGCCAGGAGGCTGAGCAGCTG  
CTACGCGGTCTCTGGGTGATCAGTACCAGACGGTGAAGGCCCTAGCTGAGCGCAAGGCCCAAGGTGTGCTGGCT  
GCACAGGCAAGGGCAGAACAACTGCGGGATGAGGCTCGGGACCTGTTGCAAGCCGCTCAGGACAAGCTGCAGCGG  
CTACAGGAATTGGAAGGCACCTATGAGGAAAATGAGCGGGCACTGGAGAGTAAGGCAGCCCAGTTGGACGGGTTG  
GAGGCCAGGATGCGCAGCGTGCTTCAAGCCATCAACTTGCAAGTGCAGATCTACAACACCTGCCAGTGACCCCTG  
CCCAAGGCCTACCCCAAGTTCTAGCACTGCCCCACATGCATGTCTGCCTATGCACTGAAGAGCTCTTGGCCCCGC  
AGGGCCCCCAATAAACAGTGTGAACCCCC

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**FIGURE 1141**

AGGGCCGGGAGCCCCGCCAGAGCCCGACTTCAGCCCCAGCCAGATCCCGCGTCAACGGAGGCGGAACGGCGGGACC  
CCGTACCCCTGCAGCATCGGAGCACCGGCGGGTGAAGGCAAGGTCCCTGGACTGGTCATATACCTCTTGTGGCCC  
TGGCAGAAATCAAGATGAGGCCCTGTCATGCCTCCCCAGTGAGGCCTACAGTCTGAGCAGACAGCATGGCCTGCCA  
CTGGCAGTGAACACCATGTCTGCAGGAGGTGGCCGGGCCTTTGCTTGGCAAGTGTTCCCCCCCCATGCCCACTTGC  
CGGGTCTATGGCACAGTGGCACACCAAGATGGGACCTGCTGGTGTGGGGGGTTGTGGCCGGGCTGGACTGCC  
CTGGACACTGCTGAGACACTGGACATGGCCTCGCACACATGGCTGGCACTGGCACCCCTGCCCACTGCCCGGGCT  
GGTGCAGCTGCGGTAGTTCTGGGCAAGCAGGTGCTAGTGGTGGGTGGTGTGGATGAGGTCCAGAGCCCCGGTAGCT  
GCTGTAGAGGCCTTCCTGATGGATGAGGGCCGCTGGGAGCGTCGGGCCACCCTCCCTCAAGCAGCCATGGGGGTT  
GCAACTGTGGAGAGAGATGGTATGGTGTATGCTCTGGGGGGAATGGGCCCTGACACGGCCCCCAGGCCCAGGTA  
CGTGTGTATGACCCCCGTCGGGACTGCTGGCTTTCGCTACCCTCCATGCCACACCCTGCTATGGGGCCTCCACC  
TTCTGTCACGGGAACAAGATCTATGTCTGGGGGGCCGCCAGGGCAAGCTCCCGGTGACTGCTTTTGAAGCCTTT  
GATCTGGAGGCCCGTACATGGACCCGGCATCCAAGCCTACCAGCCGTCGGGCCTTTGCTGGCTGCGCCATGGCT  
GAAGGCAGCGTCTTTAGCCTGGGTGGCCTGCAGCAGCCTGGGCCCCACAACCTTCTACTCTCGCCACACTTTGTC  
AACACTGTGGAGATGTTTGACCTGGAGCATGGGTCTTGACCAAATTGCCCCGCAGCCTGCGCATGAGGGATAAG  
AGGGCAGACTTTGTGGTTGGGTCCCTTGGGGGCCACATTGTGGCCATTGGGGGCCTTGAAACCAGCCATGTCCT  
TTGGGCTCTGTGGAGAGCTTTAGCCTTGACGGCGGCGCTGGGAGGCATTGCCTGCCATGCCCACTGCCCGCTGC  
TCCTGCTCTAGTCTGCAGGCTGGGCCCCGGCTGTTTGTATTGGGGGTGTGGCCAGGGCCCCAGTCAAGCCGTG  
GAGGCACTGTGTCTGCGTGATGGGGTCTGAAGGCTTGGTGGGAGCTGTCCACTGGAGCAGCTCATTGCCAGAGGC  
AGCTATTTCTATGGCTCCTTTTGCTGCTGAGGACACTCACTGTGGCTCTGTGGGATGAGAGAGGCATGGGGGTGA  
GCACTTGAAACACTGCCTTGGGGCCTTGGGTTAGGGGAGCCTTTGTCTTTAGTGCAGGACACACATATGCTTACA  
CCTACCTTTATCACCATTTCGTTTCATGAATCATGCCTAGCTCCATCCTTGCCCTGGGACCTACTAGGCCTTCCATC  
CACTGGGAAATGGGGAGAAGCAAAGCTGGCCTCATGCTCTTCAGGGTCAGTTCCTATCTGGAGTTGACCAGGCC  
TACCCAGTTGCCATTCTGAAAAATCTCAGCTGCCAGGCTGCCTTTAGGGTCCCTGCAGACCCAGGAGAGTTGA  
GAGGGTGGGGGACACAGAGAGAATAGAGAGGATGTGGGAACTGCCAGAGGGCCGGAGCGCAGGAGTTCAAGTGGA  
GGAATGCTGGCTTTGAGCCCTCTACACTGCTGGTTGTATGACCTTGGACAAGTCACTTCACCTCTCTGTGCCTCA  
GCATCCTCATCTATAAATGGGGATCTCTGAAACCTTCCTACCTACCTACCTCACAGGGCTGTTGTGAGGACCA  
GGGAGTTTGGATGTGGAAGTAAAGTGCTGCTAAAACCTA

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**FIGURE 1142**

MSAGGGRAFAWQVFPPMPTCRVYGTVAHQDGHLLVLGGCGRAGLPLDTAETLDMASHTWLALAPLPTARAGAAV  
VLGKQVLVVGGVDEVQSPVAAVEAFLMDEGRWERRATLPQAAMGVATVERDGMVYALGGMGPD TAPQAQVRVYDP  
RRDCWLSLP SMPTPCYGA STFLHG NKIYVLGGRQGKLPVTAF EAFDLEARTWTRHPSLPSRRAFAGCAMAEGSVF  
SLGGLQQPGPHNFYSRPHFVNTVEMFDLEHGSWTKLPRSLMRDKRADFVVGSLGGHIVAIGGLGNQPCPLGSVE  
SFSLARRRWEALPAMP TARCSCSSLQAGPRLFVIGGVAQGPSQAVEALCLRDGV

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**FIGURE 1143**

GGCGGCAGAGAGGAGACTATGGAACGTCAGGTGCTGCTGAGCGAGCCCGAGGAGGCGGCGGCTCTGTATCGGGGC  
CTTAGCCGCCAGCCCGCGCTGAGCGCCGCTGCCTGGGCCCGGAGGTCACCACGCAGTACGGCGGGCCAATACCGG  
ACGGTGCACACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTCGATTCTGCCGCCAATACCTGGTG  
TTCCATGACGGGGACTCAGTGGTGTTTGCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGGAAGTCTGAGC  
AGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAG  
TTCCTGGAGGTCTGGGAGAAGAACCGGAAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTT  
TATGAGGATGACTGCTTTGGCTGCCTGTCTGGTGCCTCGGAGACACACTTGTTGTATGTGGCAGAGAAGAAG  
CGCCCCAAGGCCGAGTCCCTTCTTTCAGACCAAGCCTTGGACGTCAGTGCCAGCGATGATGAGATAGCCAGGCTG  
AAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAAGACTGGGGAGAAAACATGGTTTCCAAA  
AGCATCCCTGTGCTCTGCGTGCTGGATGTGAGAGTGGCAACATCTCTGTGCTTGAGGGGGTCCCTGAGAATGTG  
TCCCCTGGACAGGCATTTTGGGCCCTGGAGATGCTGGTGTGGTGTGTTGTGGGCTGGTGGCATGAGCCCTTCCGG  
TTGGGCATCCGCTTTTGCACCAATCGCAGGTCAGCCCTGTATTATGTGGACCTCATCGGGGGGAAGTGTGAGCTC  
CTCTCGGATGACTCCCTGGCTGTCTCTTCTCCCCGGCTGAGCCAGACCAATGTGCGATTGTCTACCTGCAGTAC  
CCATCTCTGATCCCCCATCACCAATGCAGCCAGCTGTGCCTGTATGACTGCTATACCAAGTTACCTCAGTGGTG  
GTAGATGTTGTGCTCGGCAGCTGGGAGAGAACTTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGG  
TCAGCTGACAGCCAGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGTGTGGACACCCAA  
GTGGGCACTGTGACCTCCCTCACAGCTGGAGGGTCAGGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTC  
ATGGTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCTGCCTTCTGCAGGGAAGGAG  
CAGTCAGTGTGTGGGTGTCCCTGGAGGAGGCCGAGCCATTCCCGACATCCACTGGGGCATCCGGGTGCTACAG  
CCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAGCCTGGCAGCCCT  
CCAGATAAGACCCAAGTGCCCATGGTGGTCATGCCCCACGGGGGGCCCCATTCATCCTTTGTCACTGCCTGGATG  
CTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAAGTATCGTGGCTCCACGGGCTTTGGC  
CAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTGAAGGATGTCCAGTTTGCAGTGGAAACAG  
GTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTATGGGTGGTTCCTATGGTGGCTTCATTTCTGC  
CACTTGATTGGTCAGTACCCAGAGACCTACAGGGCCTGCGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATG  
TTGGGCTCCACTGACATCCCTGACTGGTGCCTGGTGGAGGCTGGCTTTTCTTTTTCAGCAGTGACTGCCTGCCAGAC  
CTCAGCGTGTGGGCTGAGATGCTGGACAAATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTG  
ATGTTGGGCCAGGAGGACCGGCGTGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCCTCAAGACCCGGAAT  
GTGCCTGTTCCGGCTCCTGCTCTATCCCAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTCAGACAGCTTC  
ATGAATGCTGTGCTCTGGCTACGCACACACTTGGGCAGCTGAGGCCCTGCCATTCTGCATGAGCTGATCAGCCTG  
TGCCACACTTCGCTCTTGAGGAGCTCAACGGTCTGGCAGGGCAGCAGGAGGCTTTCTGGGCTCTGGACTCCACGG  
ATGCGTGGGCAGAGGAATGTGGGCTATGTAGTCATAATAAATTAGGAC

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**FIGURE 1144**

MERQVLLSEPEEEAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDLERMENIRFCRQYLVFHDGDS  
VVFAGPAGNSVETRCELLSRESPSGTMKAVLRKAGGTGPGEKQFLEVWEKNRKLKSFNLSALEKHGPVYEDDCF  
GCLSWSHSETHLLYVAEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLC  
VLDVESGNISVLEGVPENVSPGQAFWAPGDAGVVFVGWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSL  
AVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRLGENFSGIYCSLLPLGCWSADSQR  
VVFDSAQRSRQDLFAVDLTQVGTVTSLTAGGSGGSWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQSVLWV  
SLEEAEPIDIIHWGIRVLQPPPEQENVQYAGLDFAILLQPGSPDKTQVPMVVMHPHGGPHSSFTAWMLFPAML  
CKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKDQVFAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQY  
PETYRACVARNPVINIASM LGSTDIPDWCVVEAGFFSSDCLPDL SVWAEMLDKSPIRYIPQVKTPLLMLGQED  
RRVPFKQGM EYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVWLRLRTHLGS



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**FIGURE 1145**

TACTCCCGGAGTCACTCATCCCTTAAGCAAGCAGGGTGGGGTTAGGTGCGCGTGCGCGGTTTTAATACTCCTCCC  
CGAACTGCCAACTCTTCACGCACGCGAAGTAGGCCCCACCCTGGCTGGGTTTACGCGTGCGCACTAACGGGGCCTG  
GTCCCAGGAAGACCACACGCGTGCGTGGTGGGGACTACGGTGACAGTACCCCGGGTGGGGCGAGGGCCAGTCAATGG  
CGGAGTCCTGGTCTGGGCAGGCCTTGACGGCTCTGCCGGCCACGGTGCTGGGCGCGCTGGGCAGCGAGTTCTTGC  
GGGAGTGGGAGGCGCAGGACATGCGCGTGACCCTCTTCAAGCTGCTGCTGCTGTGGTTGGTGTTAAGTCTCCTGG  
GCATCCAGCTGGCGTGGGGTTCTACGGGAATACAGTGACCGGGTTGTATCACCGTCCAGGTCTGGGTGGTCAGA  
ATGGATCCACGCCTGATGGCTCCACGCATTTCCCTTCGTGGGAAATGGCAGCAAACGAACCTCTCAAAACCCACA  
GAGAATAAGGAAGGCAGCAGAGGGTCTCCAAGGGCATCACTGGGTCTGCTGGCTTCTACACTGGGTCTGCTAC  
TCCCCAGACCTCAGGGACAACCTGCCGGGGTTTCAAGGTTGGTAGCAGGGAGTACCCAGTGCCCTACAGGGCTGGGC  
CTCTTCTGCCTCTTAAGCCTGCTCCCTCACCCAGGCACTGGGCAAGTGAAGAGTTTGCCTGTACTCTTATCTGGG  
TGCCTTAAGGAGAGAGATTGTGTTCTTCTCTCAGGGGTGATAACTCAGGAAGCCTCTGGGTGGGAAGACCA  
TCAGTTCTTTTGTCTTAGGTTTCTTTTCTCTCCTCTTCCATCCCCAAGATGTGACCCCATAAAAATTTTTCT  
GAGTTGGCCAGGCATGGTGGCTCAGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACGAGGTC  
AGGAGTTCGAGACCAGCCTGACCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGTGTG  
GTGGCACACACCAGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGATTTGCTTGAACCTGGGAGGCAGAGGTT  
GCAGTGAGCCAAGATTGCGCCGTTGTAATCCAGCCTGGGCAACAGAGCAAGACCCATCTCAAAAAAAAAATTTTT  
TTCTGAGAGGAAGCCTGAGGTTGACCAGCTCTGGGGTTTGTAAAGCAGGTCTGTTTTCTCCTAGGCCCTGAGTT  
TTCTGAATCTCTGGTTTTGCTTTGTTGGCAAGGAGCCAGGGAATCCTGACCTGAGCCAGACCTTAAGCTCTATGG  
TTATTTAGCTGGCCATTAGGTATAAGGCAGGGTGGTGTACCTGCTGGCACTATCCAGATGGAGGCACCAACAC  
CCACATACCTGGCCCAACCAGACTTCTCCCGTGAGCCAGGCAAAGGAAATTGTCATCTGCCAACTGTCTACTCA  
TATTCCTCTCAGTCCTTCTTGGGGTAAGCTGATTACCTGAAGGACAGCTGAACCCCTGGGGTAGCCTCCTATCC  
ACCACTGCTTAAGTGCCTATGGGAATGTGGGTCTGCACCTTGTCCCCTCATAGGATGGTACCAAGCATTTAGTGC  
ACAGTGGCCCCATCATAGCCTGCAGCCTCATCATTTCCCATCTGGACCTGGTACAAATGCACGTACAGGCTCAG  
CTCCTCCCCACTAGCATCTTCTCTACCTTCAAGAACCAGGCAGCCCTGCCATGTCACAATAGGCCAGGGGAGTTT  
CCAAAGATGTGGGTGGCAAATGCCCCTATAGAAACACCAGTACCTGAAAGCACTGTAGCCCTGGACCTGCCTCCT  
TCCCTCGGGGCCATACTTCTGTTTCCATCTGCTGGGCCACCAGCCACTTTAGTGACCCCTGCCTACTTCTCTCCT  
GTTGGATATCATACTTCCATCTGGCTGCCTTTGCTTAAGCCATCTTTGTGGTAGAGGGGCCCTGGAATTGCAGCT  
GTACTGAGGATGATGTTATTACAGCCCCTGGCCCCACCCACTAATACTACTGCACAGAGTCAGGATCTCACATTT  
CACCCCAGGCTCAACTGAGGATGTGGCTTATTAAACACGGAAGTGC

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**FIGURE 1146**

MAESWSGQALQALPATVLGALGSEFLREWEAQDMRVTLEKLLLLWLVLSSLGIQLAWGFYGNVTGTGLYHRPGLGG  
QNGSTPDGSTHFPSWEMAANEPLKTHRE

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**FIGURE 1147**

CCCGAGTGCTTCCCGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTGCGGGCGGGGCCGAGCCGGGGCCGTGGGCCGT  
GTGGGGGCCGGGCGGCGGGCCGGCGGACGGCGGGATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGGCGG  
CCGAGCGCTCTAAGATGATCGACAAGAACCTGCGGGAGGACGGAGAGAAGGCGGCGGGAGGTGAAGTTGCTGC  
TGTTGGGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCG  
AGGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTCAAAGCCA  
TGGGCAACCTGCAGATCGACTTTGCCGACCCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCCTGCA  
CCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGC  
AGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTA  
TTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCCGCTAAAGACCACGGGGATCGTGGAGA  
CACACTTCACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGGTCTGAGCGGAAGAAGTGGA  
TCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGCTAGCTGAGG  
ACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTTCGATAGCATCTGCAACAACAAGTGGTTACAGACA  
CGTCCATCATCCTCTTCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCT  
TCCCTGAGTACACAGGGGCCAACAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATA  
AGCGCAAAGACACCAAGGAGATCTACACGCACTTCACGTGCGCCACCGACACCAAGAACGTGCAGTTTCGTGTTTG  
ACGCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTCTGAGGGGCAGCGGGGCCTGGCG  
GGATGGGCCACCGCCGACTTTGTACCCCCCAACCCCTGAGGAAGATGGGGGCAAGAAGATCACGCTCCCCGCCTG  
TTCCCCGCGCTTTTCTCCTCTTCTCTCTTTGTTCTCAGCTCCCCCTGTCCCCTCAGCTCCAGACGTAGGGG  
AGGGGTTGCCACAGGCCTCCCTGTTTGAAGCCTGCCCTTGCTCTGAGATGCTGGTAATGGCCATGGTACCCCTTC  
TGGGCATCTGTTCTGGTTTTTAACCATGTCTTGTCTGTGATGAGGGGAGGGGGGCACATGCTGAGTCTCCCAA  
GGCTGCGTCTGGAGGGGGCCCTGCTTCTCCAGCCTGGACCCCCAGCTTTGCCCAACACCAGCCCCTGCCCCAGCC  
CAAGTCCAAATGTTTACAGGGAGCCTCCTGCCCAGTCCCCCAACCCAGCCGCTCGGAGGCCCCAAAGGAAAAAG  
CACAAGAAGCGTGAGACGCCACCATTCTTGAAACCACAGTCC

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**FIGURE 1148**

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEDGYSEEECRQYRAVVYS  
NTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLN  
DSAAYYLNDLERIAQSDYIPTQQDVLRTVRVKT TGIVETHFTFKDLHFKMFDVGGQSRERKKWIHCFEGVTAIIFC  
VALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWF TDTSIILFLNKKDLFE EKITHSPLTICFP EYTGANKYDEA  
ASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFV FDAVTDV I I KNNLKDCGLF

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**FIGURE 1149**

TCTGTGATTGTGGCCAGGCGGGGCACCCTCGGAGGGGAGGGTTTCGGAAGTGGAATGCGACCCCCCAGCCTCTTTTCCCTAGGGGCTGTAATCTGATCCCTGGGGACTCCCCCCTAGCCTCCCGCCCTCGCCCTCACTGCTGACTCCTCTTCCAGATCCTGGGGCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACACCCGCTGAACCTGAGCACCCTGAGCTGCTGAGATGCGGGCGGGCCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTCTGGGCAGTGGGGCTGGGGAGTGCCGCCCCCAGCCCCCAGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTTCAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGA GAACCATGTGGCCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAGAAGCTGGCCTGGCCGGCCCCCTGTGGA ATGGCGAGAGGAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCATGAACTTCGTGAAGTTGCTGCATGC CTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGTGCCTTTGTGGAAGTGGGCCA CCGGGCAGAGGAGCCCGTCCCTCCGGCTGGACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCCCTTATGACCC CAGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGAGA CTTTACCATCTTTTCGAGCCTAGGGCAACGTCCAAGTCTCCGAACAGAGCCACACGACTCCCGCTGGCTCAATGA GCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAACCAGACGACGACAAAAATCTACTTCTTCTTTTCG TGAGACGGCGGTAGAGGCGGCGCGGCACTGGGACGCCTGTCCGTGTCCCGGCTTGGCCAGATCTGCCGGAACGA CGTGGGGCGGCCAGCGCAGCCTGGTCAACAAGTGGACGACGTTCTGAAGGCGCGGCTGGTGTGCTCGGTGCCCGG CGTCGAGGGCGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGTCTCGCGGGACCACCGGACCCCGCT GCTCTATGCCGTCTTCTCCACGTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAACGACGT GCGCCGGGCCTTCTTGGGACCCCTTGCACACAAGGAGGGGCCATGCACCAGTGGGTGTACATACCAGGGTTCGCT CCCCTACCCGCGGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTCCACCAAGGACTTCCAGACGA TGTCTATCCAGTTTTCGCGGAACCAACCCCTCATGTACAACCTCTGTCCTGCCCCTGGGGGGCGCCCTCTTTTCTT ACAAGTTGGAGCCAATTACACCTTCACTCAAATTGCCGCGGACCGGGTTGCAGCCGCTGACGGACACTATGACGT CCTCTTCAATTGGCACAGACGTTGGCACGGTGTGTAAGGTGATCTCGGTCCCCAAGGGCAGTAGGCCCAGCGCAGA GGGGCTGCTCCTGGAGGAGCTGCACGTGTTTGGAGACTCGGCCGCTGTACCAGCATGCAAATTTCTTCCAAGAG GCACCAGCTGTACGTAGCTCGCGGAGCGCGGTGGCCAGATCGCGTTGCACCGCTGCGCTGCCCACGGCCGCGT CTGCACCGAATGCTGTCTGGCGCGTGACCCCTACTGCGCCTGGGACGGGGTGCAGTGCACGCGCTTCCAGCCAG TGCCAAGAGGCGGTTCGGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCG TCCCGCGCTGCTGGAACACAAGGTGTTCCGGCGTGGAGGGCAGCAGCGCCTTTCTGGAGTGTGAGCCCCGCTCGCT GCAGGCGCGCTGGAGTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCAC CGAGCGCACCGCCCCGGGACTACTGCTGCGCAGGCTGCGGCGCCGGGACTCGGGCGTGTACTTGTGCGCCGCGT CGAGCAGGGCTTTACGCAACCGCTGCGTGCCTGTGCTGACGTTGAGTGTACGCAGGCCGAACGACTGGC GCGGGCCGAGGAGGCTGCGCCCGCGCGCCGCGGGCCCCAACTCTGGTACCGGGACTTTCTGCAGCTGGTGA GCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCCGCAGCCTGCGCTGCAGTCACTGCCCTGGA GTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCCCTGAGCCTCGCGCTGAGCGGGGGCCGCGCAGCGCAAC GCACTGGTGAACAGACTGTCCCCACGCCGGGAACCAAGCAGGAGACGACAGGCGAGAGAGGAGCCAGACAGACCC TGAAAAAGAAGGACGGGTGGGGCCGGGCACATTGGGGGTACCGGCCGATGGAGACACCAACCGACAGGCCCTGG CTGAGGGCAGCTGCGCGGGCTTATTTATTAACAGGATAACCCCTGAATGTAGCAGCCCCGGGAGGGCGGCACAGG TCGGGCGCAGGATTAGCCGGAGGGAAGGGACGGGGAAGCCGAGCTCCAGAGCAACGACCAGGGCCGAGGAGGTG CCTGGAGTGCCACCCCTGGGAGACAGACCCACCTCCTTGGGTAGTGAGCAGTGAGCAGAAAGCTGTGAACAGGC TGGGCTGCTGGAGGTGGGGCGAGGCAGGCCGACTGTACTAAAGTAACGCAATAAACGCATTATCAGCCA

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**FIGURE 1150**

MGRAGAAAVIPGLALLWAVGLGSAAPSPRLRLSFQELQAWHGLQTFSLERTCCYQALLVDEERGRLFVGAENHV  
ASLNLDNISKRAKKLAWPAPVEWREECNWAGKDIGTECMNFVKLLHAYNRTHLLACGTGAFHPTCAFVEVGHRAE  
EPVLRLLDPGRIEDGKGKSPYDPRHRAASVLVGEELYSGVAADLMGRDFTIFRSLGQRP SLRTEPHDSRWLNPKF  
VKVFWIPESENPDDDKIYFFFRETAVEAAPALGRLSVSRVGQICRNDVGGQ RSLVNKWTTF LKARLVC SVPGVEG  
DTHFDQLQDVFLLSRDHRTPLLYAVFSTSSSIFQGSAVCVYSMNDVRR AFLGPF AHKEGPMHQWVS YQGRVPYP  
RPGMCPSKTFTGTFSS TKDFPDDVIQFARNHPLMYNSVLPTGGRPLFLQVGANYTFTQIAADRVAAADGHYDVLFI  
GTDVGTVLKVISVPKGSRPSAEGLLLEELHVFEDSAAVTSMQISSKRHQLYVASRS AVAQIALHRC AAHGRVCTE  
CCLARDPYCAWDGVACTRFQPSAKRRFR RQDVRNGDPSTLCSGDSSRPALLEHKVF GVEGSSAFLECEPRSLQAR  
VEWTFQRAGVTAHTQVLA EERTERTARGLLLRRRLRRRDSGVYLC AAVEQGFTQPLRRLSLHVL SATQAERLARAE  
EAAPAAPP GPKLWYRDFLQLVEPGGGGSANSLRMC RPQPALQSLPLESRRKGRNRRTHA PEPR AERGPR SATHW

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**FIGURE 1151**

ATGGGCCCCAAAAATCTTGGCGAAGTCACTTTTTTCCACTGCCTGAGGTTTGGCTGTTGCTCCTGTTATCCCAA  
GCTCTAAGCCCTTCCCATGGTCCCCAGACCCAGGCAGGGGTAGGTCTCGTCTGGAGTGTCCCGCTGCCAAGTGCC  
CTGAGAAGCCAGTCTGCTTGGTGCTCCACTGAGGGACGCTTCGGAGTTAACCACCGTGCACTTGTTCCCGACG  
CGGGGCTGGGGCGCGCGCAGGGCATTGTGGGTGCATAGTTTCAGCCAGCGCGTCTGCTCGGCTGCTAGCCGCCGTCGC  
CTGCGCGCTCAGGCCTCTGGGATTAGTAGTTTTAGCCTCGTGGATGGCGGGGCGCCTCGCGAAGATGGTGGCGCG  
CGTGGCGTGTGGCTCCCGTCTGTCGTCAGCGCAGCGCACCGGCCGGCGTCTCGTTGGCCTGGAGCCC  
ACACCCACCGGGTCCCTGACCCCGCGCCCCCGCGCCCGGTTCCCGGCATGCCTCGCGCCCGTAAGGGCAACACG  
CTCCGGAAGGGTGGTCAGCGCCGTGGAGGAGGTGCCCCGAGCAGTGCCCAAGCTGACTCGGGTTCCAGTGACGAT  
GAGGCAGCCAGTGAGGCCCGCAGCACCGCCAGTGAATGCCCCAGCCTTCTCAGCACCACTGCAGAGGACAGCCTT  
GGGGGGGATGTCGTGGATGAGCAGGGCCAGCAGGAAGACCTTGAGGAAAAGCTGAAGGAGTATGTGGACTGTCTC  
ACAGACAAGAGTGCCAAGACCCGGCAGGGTGCTCTTGAGAGCCTGCGCCTGGCCCTAGCGTCCCGCCTACTCCCC  
GACTTCTTGCTGGAGCGCCGCTCACGCTAGCCGATGCCCTGGAAAAGTGCCTCAAGAAAAGGGAAGGGCGAGGAA  
CAAGCCCTGGCTGCTGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGCCCTGGACCTAAGGGTGAGGAGCTGTTT  
CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAGCACAGCTAGCCCTGCTGCCCCGGCTCCACTGTGCT  
TCTGCCCTTGGCCTGGGCTGCTACGTGGCTGCCGCTGACATCCAGGACCTGGTCTCTTGCCCTTGCTGCTTAGAA  
AGTGTTCAGCCGGTTCTATGGCTTGGGGGGCAGCTCCACAAGTCCTGTGGTTCTTGCCAGCCTGCACGGCCTG  
CTCTCTGCTGCCCTGCAGGCCTGGGCATTGCTGCTCACCATCTGCCCTAGCACCCAAATCAGCCACATCCTTGAC  
AGGCAGCTGCCCCGGCTGCCCCAGCTCTTGCTCCAGTGAAAGTGTGAACCTGCGGATCGCTGCCGGTGAAACCATT  
GCACTGCTCTTTGAGCTTGCCCGGGACCTTGAGGAGGAGTTTGTTCAGAGGACATGGAGGCCCTCTGCAGTGTG  
CTGCGCACTCTGGCCACTGACAGTAACAAGTACCGTGCCAAGGCTGATCGTCGGCGCCAGCGCTCTACTTTCCGC  
GCCGTGCTGCACTCCGTGGAGGGCGGTGAATGCGAAGAAGAGATAGTGCGCTTCGGCTTTGAGGTGCTCTACATG  
GACAGCTGGGCTCGGCACCGGATCTACGCTGCCTTCAAGGAAGTGCTGGGTTCGGGCATGCACCACCACCTCCAG  
AACAATGAGCTACTCCGTGACATCTTTGGCCTGGGCCCTGTGCTGTTGCTGGATGCCACTGCCCTGAAGGCCTGC  
AAGGTTCCACGCTTTGAGAAGCACCTGTACAATGCTGCTGCCTTCAAAGCCCGGACCAAGGCTCGAAGCCGTGTG  
CGGGACAAGCGGGCAGACATCCTGTGAAGCAGGACCTGCTGAAGAGGAGACTTTCTATGCCCTTGGTCCGTATTT  
TTAACAGAAGACAGTGCAACAAGTGGTCTCCACCAGTATTTGTCACTTTATTTTTTTTAAATGACAAAACAAAAA  
CAGACATGGGGTGGGTAGCTGGGGGCGCGACACTTGGGACCCTGACCCCTTTGTCCCTGCACTCAGCCCTGTGG  
CCCCTTCTGTCTGTCTCAGGCCAGGCTAAATATGTGCCTTCCTCAGGGCTGTGGGGCAGGCACTAGGGGGCCT  
TTCCCTTCTTTCTTTCTCAGGCCTTGCTCCCCAGGATGACCCACTCTTAGGGGGGTGGTGGCATCTGGACAA  
ATGCCACCACAGCAGGTGGGGTGGCAAAGCTACCTGGAATGGATTGTGTGCTGATTTTAAAGGATTATTACAGA  
TAATTAAACAGAACGGTCAGCCTTCAAAAAAAAAAAAAAAAAAAAAATTCCTGCGGCCGCAAGGC

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**FIGURE 1152**

MGPKKSWRSHFFPLPEVWLLLLLSQALSPSHGPQTQAGVGLVWSVPLPSALRSQSCLGAPLRDASELTTVHLFPT  
RGWGARRALWVHSSASASSAASRRRLRAQASGISSFSLVDGGAPREDGGARGVWLPSSGQVSAQRTGRRLVGLEP  
TPTGSLTPRPFRPVPGMPRARKGNTLRKGGQRRGGGARSSAQADSGSSDDEAASEARSTASECPSLLSTTAEDSL  
GGDVVDEQGGQEDLEEKLEKEYVDCLTDKSAKTRQGALESRLALASRLLPDFLLERRLTADALEKCLKKGKCEE  
QALAAVLGLLCVQLGPGPKGEELFHSLOPLLVSLSLSDSTASPAARLHCASALGLGCYVAAADIQDLVSCLACLE  
SVFSRFYGLGGSSTSPVVPASLHGLLSAALQAWALLTICPSTQISHILDRQLPRLPQLLSSESVNLRIAAGETI  
ALLFELARDLEEEFVYEDMEALCSVLRTLATDSNKYRAKADRRRQRSTFRAVLHSVEGGECEEEIVRFGFEVLYM  
DSWARHRIYAAFKEVLGSGMHHLQNNELLRDIFGLGPVLLLDATALKACKVPRFEKHLYNAAAFKARTKARSRV  
RDKRADIL



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**FIGURE 1153**

TGCGGCCGCGTTTCCGTGGAGACAGCCGAGCCTGCGGAAGGCGGCGGCGGCGGCACCTGCGATCAGCGGCTGGGG  
CAGGTTATGGTAGTGCGGACTGCGGTGTGAGCAGAGCGGCCACGGGGCCCGCCATGCGCCGGCGGCCCTGACATG

GGCGCCAGCGGGTCCAAAGCTCGGGGCCTGTGGCCCTTCGCCTCGGCGGCGGAGGCGGCGGCTCAGAGGCAGCA  
GGAGCTGAGCAAGCTTTGGTGCGGCCTCGGGGCCGAGCTGTGCCCCCTTCGTATTCACGCGCCGCGGCTCTATG  
TTCTATGATGAGGATGGGGATCTGGCTCACGAGTTCTATGAGGAGACAATCGTCACCAAGAACGGGCAGAAGCGG  
GCCAAGCTGAGGCGAGTGCAATAAGAATCTGATTCTCAGGGCATCGTGAAGCTGGATCACCCCGCATCCACGTG  
GATTTCCCTGTGATCCTCTATGAGGTGTGAACCTGGGAGGTGGCAGACAGAAGCACCCCTGCCCGGCAAGAAA  
CTCCCAGGCTCAATCAAGGTGTGGCTTCCATTGAGGAGCCCAGGCTGGGGCCACAACCCTGAATAAACTCTGTTG  
GCCCATAACCTTCAGCTGTGAGCGGGTCGGTCCACAGTATTGGTTGGGTGTTGGTTTGTGTGTGGACAAGAGGT  
GGTTGGTGGGTGGTGAAGGCTAATGGCAGAGTTAGCACCCCACTCTCCCAAGCCACCCCTGCAAGCAGCATAGCA  
GGGCATATAACCAGTCAGGAATGCCGTTACCTGGTTCCCTTGCTTGTCTTCTTCCAAGTTTGCCTGGGGCC  
TAGCCCTGCTAGAGGCTACAGCACTTTACAAGCAAGGTATGCTTTCTTCCAGCCCCTAGGCTGTGGGCACTGTAT  
ACAAGTAGGAACCTTCCTTTCCTTCACCTCCCTTTTAACCCCTAGTCAGAGCATTCAGCCGTTTGTCTACCTCGAT  
TCCTCCTGTGTTGGACAGAGGCTGGGGGCAGTGCCAGCCTGATTCTTCCGACCTACCTGCCATTTGTTCCCGCCT  
TCAGATGGATGGACAGTTTGTCTGGCTATTGATAGGAGTGGGGACTGGGTGGGGGCTTCTCCCTCTACCCAGGGCT  
GGGCTGATCCCCCTACTGCAACTAACTGTTGCCCCCAACCCCGAACCCCACTTGAGGAGTTGAGAGAGTGCAG  
GCTGGGGTCAGGACAGGCTGCGGATGCTTGTGCCTATGGGGAGTTACTCCAACCCACCTATTCTGTCTAATCTCC  
ATGGCTTTGCACCAAATCCTCCACCCCTCCAATTGGGAGGGGACTGTTACCCACCTTGTGGTAAGGGACAACACC  
CTAAGGCTGGTGCCAGTAGTTATGAGTAGCCTACCACCCCTCCCTTACAGTAACCCCAACCCCTTCAGGATCAG  
TCAAGGGAAAGCACTAGAACCCCTGGGTAGGGAAAGAAAGGAGGGAAAAACCATAAAAGGAATACTTATAATGTG  
AAGGTTTGTAATAAGTCCATGATGATGTCGTGGCAGAGTCTGATTTCTATATAGAGGTGACTTTTTTTTTTAAGTA  
CTGTGCAAGCTCTGTGCTTCTATAATGTGGGAAATGGCTTGGGGAGGATGGCCCCTAGCTTAGGAAGACTGTTGT  
GTTATTTGTTCAATTTCAATAAAATGATTTGTAGATCCTGC

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**FIGURE 1154**

MGASGSKARGLWPFASAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQK  
RAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV

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**FIGURE 1155**

GGCACGAGGCTGCGGCCGCCAGCTCCCGCGACCGCCTCTCCTGCCCCCTCGCCGGTACCTCAGCAAGGTGCCACTA  
GAAGCGCCAGGCTGGGGCCGCCTCTGAGCGCCCCGCGGGGGCCATGGATGGTGAAACAGCAGAGGAGCAGGGGGG  
CCCTGTGCCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGGCGGCGGGAGCCCAAGAA  
GTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGGCCTGGGTGTGAACGGCAAAGTGCTGGAGTG  
CTTCCATCGGCGCACTGGACAGAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGA  
CCATCACTGGCAGGCTTCTGGCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAA  
GCGCTGTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTACAGCAGGATTCAGGAGCGTGCGGACCA  
GGCTTTCACTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAA  
CATTGCCCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAAGACGCAGTGCTTAAGCTCAC  
CGATTTTGGCTTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCCCC  
TGAGGTCTCTGGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCT  
TTGTGGCTTCCCACCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTTCGCCTGGG  
CCAGTACGGCTTCCCCAATCCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTGATCCGCCTCCTGTTGAA  
GACAGACCCACAGAGAGGCTGACCATCACTCAGTTCATGAACACCCCTGGATCAACCAATCGATGGTAGTGCC  
ACAGACCCCACTCCACACGGCCCCGAGTGCTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGAC  
CAGTGCCCTTGCCCACTATGCGGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTCTAACAACCGGCT  
CCTCAACAAGAGGAGAAAAAAGCAGGCAGGCAGCTCCTCTGCCTCACAGGGCTGCAACAACCAGTAGTTCATGGG  
GCCTTGAGGAGCCTGGCCTCTCAGCCTGCATAACAGACTGAAATGTGCTCAGGCCCTGGCCAGGAGGGCCCAGG  
GTCATTCTTTTAACAAAAGGATTATTTTGTGTGTTTTAATTTGTCACTCGGAACCTCAGGATGGAGGACCCTGA  
CCCTAAGCCTCCTTCAGATCTCTGGCCCAGGCTCAAGCCCTAGAGATGGGCAGGGCCTAGGGGCTGGGAGCTGCC  
TGCTGCCATAGCAGCACCTTTAGCTAGGTTGGCCCGAGTGAGGCCTCTGTGCTGTCCTGCCCTGGTGCATGGCCT  
TAGCTTTCTAGGCCACTGGGAGTTGTGGCTGGGCTTCCCATCTTCCACAGAGACATCTCCCTGTGGGATGGGCAG  
ATGGGCCTGGCCTTGAGAAAGGCATTGGCCATTGGTTGCCATGGTGACCAGGGACCACGTTGCTGCCTGTGAATG  
CTGAGTGAGCGAGTAAGGGAGGAGGGGCGATTGAGGGTTACCTCTGCCTTGGGGAGGCTGATTTCTCACACACT  
GGCTGGCCCTCTCATTCTCACTCCTCCTTGGGCCCTGAGGCTGCTGGATCCGGTCTGCCTGCCTCCCTGTGCAGT  
CCAGCCCTGCCTTGCTGCAGCCCCAGCCCAGATGGCACTCAGCGCTCTCCCCTGAGGGAGTCCCTGGGCCTAGCC  
ATCCCCTCACTATTCCCAGCCCAAAGGGTGACTTTTCATCTGAACTTAAGGTGGGAGATATTTTAACTTTTTTC  
CACTTTGGAAAATGTCACTGTGACAAAAGCCAGCATACTTTCCCTGCACCCATCTGCTCACCAGATCTCAGGCAG  
GAAAGCCCCCTCTCTGTTGAAGTCAGGGGCTATCTTTTGGTATACTTGTGTGAAAGTGGCTGGTTGGGAGCAGAGC  
TAAGTGGCTTCCCATTAACTGAGGTCTCTTTCTTTACTCTGGGTGACACCTGAGGTTGGGGAAGGCGACTGAGC  
CATGCTCAGAATGTCTGGTCCTGGCTTGGGCCTGAGTAGGGCAGAGAGGGCCTTTTCATGGCTGATCAGAGCTTAC  
CAGCCCCACCCACCATGGTAGCCTTAGGGTGCTGAGTGCCCTGATACTGCCTGACAAGTGCTGACACGCAGCCT  
AGTTCCTTCCCTGGCCCTCTCTCACTGGCTGGGAAACCCCTAGACCATGTGAGATAGGACAACACTGCTGGGTTTT  
ACATCCAGATAGTAATAAACACCATTTTCATCATT

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**FIGURE 1156**

MDGETAEEQGGPVPPPVPAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLECFHRRTGQKCALKLL  
YDSPKARQEVDDHHWQASGGPHIVCILDVYENMHHGKRCLLIIMECMEGGELFSRIQERGDQAFTEREAAEIMRDI  
GTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTONALQTPCYTPYYVAPEVLGPEKYDKSCDM  
WSLGVIMYILLCGFPFFYSNTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAKQLIRLLLKTDPETERLTITQFMN  
HPWINQSMVVPQTPPLHTARVLQEDKDHWDDEVKEEMTSALATMRVDYDQVKIKDLKTSNNRLLNKRRKKQAGSSA  
SQGCNNQ

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**FIGURE 1157**

GGCGGCATTTCTGGTGTCTGAGCCTGGCGCGGAGGCTATGGGCAGCCAGGAGGTGCTGGGCCACGCGGCCCGGC  
TGGCCTCCTCCGGTCTCCTCCTGCAGGTGTTGTTTCGGTTGATCACCTTTGTCTTGAATGCATTTATTCTTCGCT  
TCCTGTCAAAGGAAATCGTTGGCGTAGTAAATGTAAGACTAACGCTGCTTTACTCAACCACCCTCTTCCTGGCCA  
GAGAGGCCTTCCGCAGAGCATGTCTCAGTGGGGGCACCCAGCGAGACTGGAGCCAGACCTCAACCTGCTGTGGC  
TAACAGTCCCCCTGGGTGTGTTTTGGTCTTATTCTGGGCTGGATCTGGTTGCAGCTGCTTGAAGTGCCTGATC  
CTAATGTTGTCCCTCACTATGCAACTGGAGTGGTGTGTTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGC  
CCTTTTGGGTCTTGGCACAAGCACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTCGGTAATTCTTA  
AGAGCGTTCTGACAGCTTTTCTCGTGCTGTGGTTGCCTCACTGGGGATTGTACATTTTCTCTTTGGCCCAGCTTT  
TCTATACCACAGTTCTGGTGTCTGTCTATGTTATTTATTTACAAAGTTACTGGGTCCCCAGAATCAACCAAGC  
TTCAAACCTCTTCCTGTCTCCAGAATAACAGATCTGTTACCCAATATTACAAGAAATGGAGCGTTTATAAACTGGA  
AAGAGGCTAAACTGACTTGGAGTTTTTCAAACAGTCTTTCTTGAACAGATTTTGACAGAAGGCGAGCGATATG  
TGATGACATTTTTGAATGTATTGAACTTTGGTGATCAGGGTGTGTATGATATAGTGAATAATCTTGGCTCCCTTG  
TGGCCAGATTAAATTTCCAGCCAATAGAGGAAAGTTTTATATATTTTTTGCTAAGGTGCTGGAGAGGGGAAAGG  
ATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTGCAGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGC  
TGGCCGGCCTGACCATCACTGTTTTTGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGC  
TTAGCTCAGGATCCGGTCTCTGTTTTGCTGCGTTCCCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGGAGTGA  
CAGAGTGTTCACATTTGCTGCCATGAGCAAAGAGGAGGTCGACAGGTACAATTTTGTGATGCTGGCCCTGTCTCT  
CCTCATTCTGGTGTATCCTATCTCTTGACCCGTTGGTGTGGCAGCGTGGGCTTCATCTTGGCCAACCTGCTTTA  
ACATGGGCATTTCGGATCACGCAGAGCCTTTGCTTCATCCACCGCTACTACCGAAGGAGCCCCACAGGCCCTGG  
CTGGCCTGCACCTATCGCCAGTCCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTTACTGCTGTTTCGGAGGTAT  
TCCTCTGCTGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGGGGGCCTTCTGTCTGGGAGCAACTC  
TCGGGACAGCATTCTCACAGAGACCAAGCTGATCCATTTCTCAGGACTCAGTTAGGTGTGCCCAGACGCACTG  
ACAAAATGACATGACTTCAGGGAAGCCTGGACACCCGAGGCACCTGGACCAGCTATGGGTAGTTCTGTGGGTGGA  
ACACATTCTGTGTAAGAGCCCCACTGAGGGCTCTGCAGCGGAGTGACAGCAACCCCAAAGATGAGGCACCAGAGA  
GTGCCACTGCATGAGACACCTGTGACCATTGGAAGTCTGAAATGCGGGGGGGAGTTTCATTTTTAAGTGAAGAC  
CAAAAGCCCTTTAAAAATAATAGTTTTTTATCATTTTATAGTAAAAAAAAAAAAAAAAAGGGCGGACCATCAATCAG  
CACGCAGCAAGAAAAGCACATTCATACTAGACTATACAAAAAAAAAAAAAAAAA

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**FIGURE 1158**

MGSQEVLGHAARLASSGLLLQVLFRLITFVLNAFILRFLSKEIVGVNVRLTLLYSTTLFLAREAFRRACLSSGT  
QRDWSQTLNLLWLTVP LGVFWSLFLGWIWLQLLEVPDPNVVPHYATGVVLFGLSAVVELLGEPFWVLAQAHMFVK  
LKVIAESLSVILKSVLTAFVLVWLP HWGLYIFSLAQLFYTTVLVLCYVIYFTKLLGSPESTKLQTLPVSRITDLL  
PNITRNGAFINWKEAKLTWSFFKQSFLKQILTEGERYVMTFLNVLNFGDQGVYDIVNNLGSLVARLIFQPIEESF  
YIFFAKVLERGKDATLQKQEDVAVAAVLESLLKLALLAGLTITVFGFAYSQALDIYGGTMLSSGSGPVLLRSY  
CLYVLLLAINGVTECF TFAAMSKEEVD RYNFVMLALSSSFLVLSYLLTRWCGSVGFILANCFNMGIRITQSLCFI  
HRYYRRSPHRPLAGLHLSPVLLGTFALSGGVTAVSEVFLCCEQGWPARLAHIAVGAFCLGATLGTAFLTETKLIH  
FLRTQLGVPRRTDKMT



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**FIGURE 1160**

MESYHKPDQOKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKSQDPRNPHNDRFVLSK  
GHAAPILYAVWAEAGFLAEAE LLNLRKISSDLDGHPVPKQAF TDVATGSLGQGLGAACGMAYTGKYFDKASYRVY  
CLLGDGELSEG SVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQM DIYQKRCEAFGWHAIIVDGH SVEELC  
KAFGQAKHQPTAI IAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILATPPQEDAPSVDIAN  
IRMP SLPSYKVGDKIATRKAYGQALAKLGHASDRIIALDGD TKNSTFSEIFKKEHPDRFIECYIAEQNMVSI AVG  
CATRNRTVPFCSTFAAFFTRA FDQIRMAAISESNINLCGSHCGV SIGEDGPSQMALEDLAMFRSVPTSTV FYPSD  
GVATEKAVELAANTKGICFIRTSR PENAI IYNNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAE LLKKE  
KINIRVLDPFTIKPLDRKLILDSARATKGRILTVEDHYE GGGIGEAVSSAVVGEPGITVTHLAVNRVPRSGKPAE  
LLKMF GIDRDAIAQAVRGLITKA



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**FIGURE 1161**

AGAAGCCTCCTGGCAGACACTGGAGCCACGATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTC  
CTGCTTTTCACTGCTGGCCATCCACCAGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCCTG  
GACTCCAGGGTCTCATCCCGATTTGCCACACGGTCGTACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAG  
GAGGCCACCTTCCAGATGGAGCTGCCCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCATGACC  
TACCCAGGGATCATCAAGGAGAAGGCTGAAGCCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGGAAAGAGCGCT  
GGCCTCGTCAAGGCCACCGGGAGAAACATGGAGCAGTTCCAGGTGTCCGGTCAGTGTGGCTCCCAATGCCAAGATC  
ACCTTTGAGCTGGTCTATGAGGAGCTGCTCAAGCGGCGTTTGGGGGTGTACGAGCTGCTGCTGAAAGTGC GGCCC  
CAGCAGCTGGTCAAGCACCTGCAGATGGACATTACATCTTCGAGCCCCAGGGCATCAGCTTTCTGGAGACAGAG  
AGCACCTTCATGACCAACCAGCTGGTAGACGCCCTCACCACCTGGCAGAATAAGACCAAGGCTCACATCCGGTTT  
AAGCCAACACTTTCCAGCAGCAAAAGTCCCCAGAGCAGCAAGAAACAGTCTTGACGGCAACCTCATTATCCGC  
TATGATGTGGACCGGGCCATCTCCGGGGGTCCATTAGATCGAGAACGGCTACTTTGTACACTACTTTGCCCCC  
GAGGGCCTAACCACAATGCCCAAGAATGTGGTCTTTGTATTGACAAGAGCGGCTCCATGAGTGGCAGGAAAATC  
CAGCAGACCCGGGAAGCCCTAATCAAGATCCTGGATGACCTCAGCCCCAGAGACCAGTTCAACCTCATCGTCTTC  
AGTACAGAAGCAACTCAGTGGAGGCCATCACTGGTGCCAGCCTCAGCCGAGAACGTGAACAAGGCCAGGAGCTTT  
GCTGCGGGCATCCAGGCCCTGGGAGGGACCAACATCAATGATGCAATGCTGATGGCTGTGCAGTTGCTGGACAGC  
AGCAACCAGGAGGAGCGGCTGCCCGAAGGGAGTGTCTCACTCATCATCCTGCTCACCAGTGGCGACCCCACTGTG  
GGGAGACTAACCCAGGAGCATCCAGAATAACGTGCGGGAAGCTGTAAGTGGCCGGTACAGCCTCTTCTGCCTG  
GGCTTCGGTTTCGACGTCAGCTATGCCTTCCTGGAGAAGCTGGCACTGGACAATGGCGGCCTGGCCCGGCGCATC  
CATGAGGACTCAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCCAACCCACTGCTGACAGCAGTG  
ACCTTCGAGTACCCAAGCAATGCCGTGGAGGAGGTCACTCAGAACAACCTCCGGCTCCTCTTCAAGGGCTCAGAG  
ATGGTGGTGGCTGGGAAGCTCCAGGACCGGGGGCCTGATGTGCTCACAGCCACAGTCAGTGGGAAGCTGCCTACA  
CAGAACATCACTTTCCAAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCCAGAGCCCCAAGTATATCTTC  
CACAACCTTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGCTGCTGGAGCAAACTGTCTCCGCATCCGAT  
GCTGATCAGCAGGCCCTCCGGAACCAAGCGTGAATTTATCACTTGCTACAGCTTTGTACGCCCTCTCACATCT  
ATGGTAGTCACCAAACCCGATGACCAAGAGCAGTCTCAAGTTGCTGAGAAGCCCATGGAAGGCGAAAGTAGAAAC  
AGGAATGTCCACTCAGGTTCCACTTTCTTCAAATATTATCTCCAGGGAGCAAAAATACCAAACCCAGAGGCTTCC  
TTTTCTCCAAGAAGAGGATGGAATAGACAAGCTGGAGCTGCTGGCTCCCGGATGAATTTAGACCTGGGGTTCTC  
AGCTCCAGGCAACTTGGACTCCCAGGACCTCCTGATGTTCTGACCATGCTGCTTACCACCCCTTCCGCCGTCTG  
GCCATCTTGCTGCTTACGACCAACCAGCCACCTCAAATCCTGATCCAGCTGTGTCTCGTGTGATGAATATGAAA  
ATCGAAGAAACAACCATGACAACCCAAACCCAGCCCCATACAGGCTCCCTCTGCCATCCTGCCACTGCCTGGG  
CAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCCAGGGGCCAGTGAACCTGCTCTCAGACCCCTGAGCAA  
GGGTTTGAGGTGACTGGCCAGTATGAGAGGGAGAAGGCTGGGTTCTCATGGATCGAAGTGACCTTCAAGAACCC  
CTGGTATGGGTTACGCATCCCTGAACACGTGGTGGTGACTCGGAACCGAAGAAGCTCTGCGTACAAGTGGAAG  
GAGACGCTATTCTCAGTGTATGCCCGGCTGAAGATGACCATGGACAAGACGGGTCTCCTGCTGCTCAGTGACCCA  
GACAAAGTGACCATCGGCCTGTTGTTCTGGGATGGCCGTGGGAGGGGCTCCGGCTCCTTCTGCGTGACACTGAC  
CGCTTCTCCAGCCACGTTGGAGGGACCTTGGCCAGTTTACCAGGAGGTGCTCTGGGGATCTCCAGCAGCATCA  
GATGACGGCAGACGCACGCTGAGGGTTCAGGGCAATGACCACTCTGCCACCAGAGAGCGCAGGCTGGATTACCAG  
GAGGGGCCCCCGGAGTGGAGATTTCTGCTGGTCTGTGGAGCTGTAGTTCTGATGGAAGGAGCTGTGCCACCC  
TGTACACTTGGCTTCCCCCTGCAACTGCAGGGCCGCTTCTGGGGCCTGGACCACCATGGGGAGGAAGAGTCCAC  
TCATTACAAATAAAGAAAGGTGGTGTGAGCCTGGG

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**FIGURE 1162**

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGGTGACGCACTTTACG  
GCGGCAGCGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACACGTGGCGCCAGCGGAGGCAGGTTGATGTGT  
TTGTGCTTCCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGC  
GGTATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCGGGGTCACAAGA  
AGCCTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGA  
AACAGAGGCTTGAAGAACTAAACAGCAGCAGAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAGAAAACCTTG  
AACTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGAGGAGTTTGGGCTTTGCAAACTGAGAACA  
AAGCCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATG  
TTGTCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGA  
GTGGACAGAAAAAGCTGGTACTTATATTAAATAAATCAGATCTGGTACCAAAGGAGAATTTGGAGAGCTGGCTAA  
ATTATTTGAAGAAAGAATTGCCAACAGTGGTGTTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCA  
AGCGTGTGAAGGCAAAGAAGAATGCTGCTCCATTCAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAAAC  
TTCTTGGAGGTTTTTCAGGAACTTGCGAGCAAAGCCATTTCGGGTTGGAGTAATTGGTTTCCCAAATGTGGGGAAAA  
GCAGCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGC  
AAGTTGTCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCT  
CTGCGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCC  
AGGCTGATGCTCGACAGGTAGTACTGAAATATACTGTCCCAGGCTACAGGAATTCTCTGGAATTTTTTACTGTGC  
TTGCTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTG  
AGTGGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTTAATGAGA  
GTATTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGAACAATGCACAGAGCATAAGAGCCA  
TCAAGGGCCCTCATTTGGCCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGG  
ACATACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAGACAGTGACCAGG  
AACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTGTCAGAAGAGACAGGGGAGGCAGTGTCTG  
AGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGGATAAAATCATTGAAGAGGATGATGCTTATG  
ACTTCAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTAACATTTTAAGCAGACTGCTA  
AACTGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTTAAACCAGGC  
AACTTGGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAA  
AGAAGATACCTATTG

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**FIGURE 1163A**

ACTCTGTCCTGGACAGCGTGCCACAGCCATGCGGGGGCCCCGGGGCCTCCTCCCACTCTGCCTCCTGGCCTTC  
TGCTTGGCAGGCTTCAGCTTCGTGAGGGGGCAGGTGCTGTTCAAAGGCTGTGATGTGAAAACCACGTTTGTCACT  
CATGTACCCCTGCACCTCGTGCGCGGCCATCAAGAAGCAGACGTGTCCCTCAGGCTGGCTGCGGGAGCTCCCGGAT  
CAGATAACCCAGGACTGCCGCTACGAAGTACAGCTGGGGGGCTCTATGGTGTCCATGAGCGGCTGCAGACGGAAG  
TGCCGGAAGCAAGTGGTGCAGAAGGCCTGCTGCCCTGGCTACTGGGGTTCCCGGTGCCATGAATGCCCTGGGGGC  
GCTGAGACCCCATGCAATGGCCACGGGACCTGCTTGGATGGCATGGACAGGAATGGGACCTGTGTGTGCCAGGAA  
AACTTCCGCGGCTCAGCCTGCCAGGAGTGCCAAGACCCCCAACCGGTTCCGGCCTGACTGCCAATCGGTGTGCAGC  
TGTGTGCACGGAGTGTGCAACCATGGGCCACGTGGGGATGGAAGCTGCCCTGTGCTTTGCTGGATACACTGGCCCC  
CACTGTGATCAAGAGCTGCCCCGTCTGCCAGGAGCTGCGCTGTCCCCAGAACACCCAGTGTCTCCGAGAGGCTCCC  
AGCTGCAGGTGCCCTGCCCGGCTACACACAGCAGGGCAGTGAATGCCGAGCCCCAACCCCTGCTGGCCATCACCC  
TGCTCACTGCTGGCCAGTGTCTCGGTGAGCCCCAAGGGGCAGGCTCAGTGTCACTGCCCTGAGAACTACCATGGC  
GATGGGATGGTGTGTCTGCCCAAGGACCCATGCACTGACAACCTTGGTGGCTGCCCCAGCAACTCTACTTTGTGT  
GTGTACCAGAAGCCGGGGCAGGCCTTCTGCACCTGCCGGCCAGGCCTGGTCAGCATCAACAGCAACGCTTCTGCG  
GGCTGCTTCGCCTTCTGCTCCCCCTTCTCCTGCGACCGGTCTGCCACTTGCCAGGTGACCGCTGATGGGAAGACC  
AGCTGTGTGTGCAGGGAAAGCGAGGTGGGGGATGGGCGTGCCTGCTACGGACACCTGCTCCACGAGGTGCAGAA  
GCCACGCAGACAGGCCGGGTGTTCTGCACTGAGGGTGCCTGTGGCCATGATGGACCAGGGCTGCCGGGAAATC  
CTTACCACAGCGGGCCCTTTACCGTGCTGGTGCCATCCGTCTCCTCCTTCTCCTCCAGGACCATGAATGCATCC  
CTTGCCACAGCAGCTCTGTAGACAGCACATCATCGCAGGGCAGCACATCCTGGAGGACACAAGGACCCAAACAAACA  
CGAAGGTGGTGGACGCTGGCCGGGCAGGAGATCACCGTCACCTTTAACCAATTACGAAATACTCCTACAAGTAC  
AAAGACCAGCCCCAGCAGACGTTCAACATCTACAAGGCCAACACATAGCAGCTAATGGCGTCTTCCACGTGGTC  
ACTGGCCTGCGGTGGCAGGCCCCCTCTGGGACCCCTGGGGATCCCAAGAGAACTATCGGACAGATCCTCGCCTCT  
ACCGAGGCCTTCAGCCGCTTTGAAACCATCCTGGAGAACTGTGGGCTGCCCTCCATCCTGGACGGACCTGGGCCC  
TTCACAGTCTTTGCCCAAGCAATGAGGCTGTGGACAGCTTGCGTGACGGCCGCCTGATCTACCTCTTCACAGCG  
GGTCTCTCTAAACTGCAGGAGTTGGTGCGGTACCACATCTACAACCACGGCCAGCTGACCGTTGAGAAGCTCATC  
TCCAAGGGTCGGATCCTCACCATGGCGAACAGGTCTGGCTGTGAACATTTCTGAGGAGGGGCGCATCCTGCTG  
GGACCCGAGGGGTCCCGCTGCAGAGGGTAGACGTGATGGCCGCCAATGGTGTGATCCACATGCTGGACGGCATC  
CTGCTGCCCCCGACCATCCTGCCCATCCTGCCCAAGCACTGCAGCGAGGAGCAGCACAAGATTGTGGCGGGCTCC  
TGTGTGGACTGCCAAGCCCTGAACACCAGCACGTGTCCCCCAACAGTGTGAAGCTGGACATCTTCCCCAAGGAG  
TGTGTCTACATCCATGACCCAACGGGGCTCAATGTGCTAAAGAAGGGCTGTGCCAGCTACTGCAACCAACCATC  
ATGGAACAAGGCTGCTGCAAAGGTTTTTTTCGGGCCTGACTGCACGCAGTGTCTTGGGGCTTCTCCAACCCCTGC  
TATGGCAAAGGCAATTGCAGTGATGGGATCCAGGGCAATGGGGCCTGCCTCTGCTTCCAGACTACAAGGGCATC  
GCCTGCCACATCTGCTCGAACCCAAACAAGCATGGAGAGCAATGCCAGGAAGACTGCGGCTGTGTCCATGGTCTC  
TGCGACAACCGCCAGGCAGTGGGGGGGTGTGCCAGCAGGGCACGTGTGCCCTGGCTTCAGTGGCCGGTTCTGC  
AACGAGTCCATGGGGGACTGTGGGCCCACAGGGCTGGCCCAGCACTGCCACCTGCATGCCCCGCTGTGTAGCCAG  
GAGGGTGTGGCAGATGTGCTGTCTTGATGGCTTTGAGGGTGATGGCTTCTCCTGCACACCTAGCAACCCCTGC  
TCCCACCCGGACCGTGGAGGCTGCTCAGAGAATGCTGAGTGTGTCCCTGGGTCCCTGGGCACCCACCACTGCACA  
TGCCACAAAGGCTGGAGTGGGGATGGCCGCTGTGTGTGGCTATTGACGAGTGTGAGCTGGACATGAGAGGTGGC  
TGCCACACCGATGCCCTCTGCAGCTATGTGGGCCCCGGGCAGAGCCGATGCACCTGCAAGCTGGGCTTTGCCGGG  
GATGGCTACCACTGCAGCCCCATCGACCCCTGCCGGGCAGGCAATGGCGGCTGCCACGGCCTGGCCACCTGCCGG  
GCAGTGGGGGGAGGTGAGCGGGTCTGCACGTGCCCCCTGGCTTTGGGGGTGATGGCTTCAGCTGTTATGGAGAC  
ATCTTCCGGGAGCTGGAGGCAATGCCCACTTCTCCATCTTCTACCAATGGCTTAAGAGTGCCGGCATCACGCTT  
CCTGCCGACCGCCGAGTCACAGCCCTGGTGCCCTCCGAGGCTGCAGTCCGTGAGCTGAGCCCCGAGGACCGAGCT  
TTCTGGCTGCAGCCAAGGACGCTGCCGAACCTGGTCAGGGCCATTTTCTCCAGGGTGCCCTCTTCGAGGAGGAG  
CTGGCCCGGCTGGGTGGGCAGGAAGTGCCACCCCTGAACCCACACACGCTGGGAGATTGCAACATTAGTGGG  
AGGGTCTGGGTGCAGAATGCCAGCGTGATGTGGCTGACCTCCTTGCCACCAACGGTGTCTACACATCCTCAGC  
CAGGTCTTACTGCCCCCCCCGAGGGGATGTGCCCGGTGGGCAGGGGTTGCTGCAGCAGCTGGACTTGGTGCCTGCC  
TTCAGCCTCTTCCGGGAATTGCTGCAGCACCATGGGTTGGTGCCCCAGATTGAGGCTGCCACTGCCTACACCATC  
TTTGTGCCACCAACCGCTCCCTGGAGGCCAGGGCAACAGCAGTCACCTGGACGCAGACACAGTGCGGCACCAT

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**FIGURE 1163B**

GTGGTCCTGGGGGAGGCCCTCTCCATGGAAACCCTGCGGAAGGGTGGACACCGCAACTCCCTCCTGGGCCCTGCC  
CACTGGATCGTCTTCTACAACCACAGTGGCCAGCCTGAGGTGAACCATGTGCCACTGGAAGGCCCATGCTGGAG  
GCCCCTGGCCGCTCGCTGATTGGTCTGTCTGGGGGTCTGACGGTGGGGCTCAAGTCGCTGCCTGCATAGCCACGCT  
GAGGCCCTGCGGGAGAAATGTGTAAACTGCACCAGGAGATTCCGCTGCACTCAGGGCTTCCAGCTGCAGGACACA  
CCCAGGAAGAGCTGTGTCTACCGATCTGGCTTCTCCTTCTCCCGGGGCTGCTCTTACACATGTGCCAAGAAGATC  
CAGGTGCCGGACTGCTGCCCTGGTTTCTTTGGCACGCTGTGTGAGCCATGCCCAGGGGGTCTAGGGGGGGTGTGC  
TCAGGCCATGGGCAGTGCCAGGACAGGTTCTTGGGCAGCGGGGAGTGCCACTGCCACGAGGGCTTCCATGGAACG  
GCCTGTGAGGTGTGTGAGCTGGGCCGCTACGGGGCCAACTGCACCGGAGTGTGTGACTGTGCCATGGGCTGTGC  
CAGGAGGGGCTGCAAGGGGACGGAAGCTGTGTCTGTAACTGAGGCTGGCAGGGCTCCGCTGTGACCAGAAAATC  
ACCAGCCCTCAGTGCCTTAGGAAGTGCACCCCAATGCCAACTGCGTGCAGGACTCGGCCGGAGCCTCCACCTGC  
GCCTGTGCTGCGGGATACTCCGGCAATGGCATCTTCTGTTTACAGAGTGGACCCCTGCGCCACGGCCATGGGGGC  
TGCTCCCCCTCATGCCAACTGTACCAAGGTGGCACCTGGGCAGCGGACATGCACCTGCCAGGATGGCTACATGGGC  
GACGGGGAGCTGTGCCAGGAAATTAACAGCTGTCTCATCCACCACGGGGGCTGCCACATTCACGCCGAGTGCATC  
CCCACTGGCCCCCAGCAGGTCTCCTGCAGCTGCCGTGAGGGTTACAGCGGGGATGGCATCCGGACCTGCGAGCTC  
CTGGACCCCTGCTCTAAGAACAATGGAGGATGCAGCCCATATGCCACCTGCAAAAGCACAGGGGATGGCCAGAGG  
ACATGTACCTGCGACACAGCCACACCGTGGGGGACGGCCTCACCTGCCGTGCCGAGTCGGCCTGGAGCTCCTG  
AGGGATAAGCATGCCTCATTCTTCAGCCTCCGCCTCCTGGAATATAAGGAGCTCAAGGGCGATGGGCCCTTTCACC  
ATCTTCGTGCCGCACGCAGATCTAATGAGCAACCTGTGCGAGGATGAGCTGGCCCGGATTCTGTGCGCATCGCCAG  
CTGGTGTTCGCTACCACGTGGTTGGCTGTGCGCGGCTGCGGAGCGAGGACCTGCTGGAGCAGGGGTACGCCACG  
GCCCTCTCAGGGCACCCACTGCGCTTACGCGAGAGGGAGGGCAGCATATACCTCAATGACTTCGCGCGCGTGGTG  
AGCAGCGACCATGAGGCCGTGAACGGCATCCTGCACCTTATTGACCGTGTCTGCTGCCCCCGAGGCGCTGCAC  
TGGGAGCCTGATGATGCTCCCATCCCGAGGAGAAATGTCACCGCCGCCGCCAGGGCTTCGGTTACAAGATCTTC  
AGCGGCCTCCTGAAGGTGGCCGGCCTCCTGCCCCGCTTCGAGAGGCATCCCATAGGCCCTTACAATGCTGTGG  
CCACAGACGCCGCTTTCGAGCTCTGCCTCCGGATCGCCAGGCCTGGCTGTACCATGAGGACCACCGTGACAAG  
CTAGCAGCCATTCTGCGGGGCCACATGATTGCAATGTGAGGCCTTGGCATCTGACCTGCCAACCTGGGCCCA  
CTTGAACCATGCATGGGACCCCCATCTCTTTCTCCTGCAGCCGAACCGGGCCGGTGAGCTCATGGTGGGTGAG  
GATGATGCTCGCATTGTGCAGCGGCACCTTGCCTTTGAGGGTGGCCTGGCCTATGGCATCGACCAGCTGCTGGAG  
CCACCTGGCCTTGGTGCTCGCTGTGACCACTTTGAGACCCGGCCCCCTGCGACTGAACACCTGCAGCATCTGTGGG  
CTGGAGCCACCTGTCTTGAGGGGTACAGGAGCAGGGCAGCCCTGAGGCCTGCTGGCGCTTCTACCCGAAGTTC  
TGGACGTCCCCCTCCGCTGCACTCTTTGGGATTACGCAGCGTCTGGGTCCACCCAGCCTTTGGGGTAGGCCCCAA  
GGCCTGGGCAGGGGCTGCCACCGCAATTGTGTACCAACACCTGGAAGCCCAGCTGCTGCCCTGGTCACTATGGC  
AGTGAGTGCCAAGCTTGGCCTGGCGGCCCCAGCAGCCCTTGTAGTGACCGTGGCGTGTGCATGGACGGCATGAGT  
GGCAGTGGGCAGTGTCTGTGCCGTTTCAAGTTTTGCTGGGACAGCCTGTGAACTCTGTGCTCCTGGTGCCTTTGGG  
CCCCATTGTCAAGCCTGCCGCTGCACTGTGCATGGCCGCTGTGATGAGGGCCTTGGGGGCTCTGGCTCCTGCTTC  
TGTGATGAAGGCTGGACTGGGCCACGCTGTGAGGTGCAACTGGAGCTGCAGCCTGTGTGTACCCACCCCTGTGCA  
CCCGAGGCTGTGTGCCGTGCAGGCAACAGCTGTGAGTGCAGCCTGGGCTATGAAGGGGATGGCCGTGTGTGTACA  
GTGGCAGACCTGTGCCAGGACGGGCATGGTGGCTGCAGTGAGCAGCCAACTGTAGCCAGGTAGGAACAATGGTC  
ACTTGTACCTGCCTGCCCCACTACGAGGGTGTGGCTGGAGCTGCCGGGCCCCGCAACCCCTGCACAGATGGCCAC  
CGCGGGGGCTGCAGCGAGCACGCCAACTGCTTGAGCACCGGCCTGAACACACGGCGCTGTGAGTGCCACGCAGGC  
TACGTAGGCGATGGACTGCAGTGTCTGGAGGAGTCGGAACACCTGTGGACCGCTGCTTGGGCCAGCCACCGCCC  
TGCCACTCAGATGCCATGTGCACTGACCTGCACTTCCAGGAGAAACGGGGCTGGCGTTTTCCACCTCCAGGCCACC  
AGCGGCCCTTATGGTCTGAACTTTTCGGAGGCTGAGGCGGCATGCGAAGCACAGGGAGCCGCTCTTGCTTCATTC  
CCTCAGCTCTCTGCTGCCAGCAGCTGGGCTTCCACCTGTGCCTCATGGGCTGGCTGGCCAATGGCTCCACTGCC  
CACCTGTGGTTTTCCCTGTGGCGGACTGTGGCAATGGTCGGGTGGGCATAGTCAGCCTGGGTGCCCGCAAGAAC  
CTCTCAGAACGCTGGGATGCCCTACTGCTTCCGTGTGCAAGATGTGGCCTGCCGATGCCGAAATGGCTTCGTGGGT  
GACGGGATCAGCACGTGCAATGGGAAGCTGCTGGATGTGCTGGCTGCCACTGCCAACTTCTCCACCTTCTATGGG  
ATGCTATTGGGCTATGCCAATGCCACCCAGCGGGGTCTCGACTTCCCTGGACTTCCCTGGATGATGAGCTCACGTAT  
AAGACACTCTTCGTCCCTGTCAATGAAGGCTTTGTGGACAACATGACGCTGAGTGGCCAGACTTGGAGCTGCAT

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**FIGURE 1163C**

GCCTCCAACGCCACCCTCCTAAGTGCCAACGCCAGCCAGGGGAAGTTGCTTCCGGCCCACTCAGGCCTCAGCCTC  
ATCATCAGTGACGCAGGCCCTGACAACAGTTCCTGGGCCCCTGTGGCCCCAGGGACAGTTGTGGTTAGCCGTATC  
ATTGTGTGGGACATCATGGCCTTCAATGGCATCATCCATGCTCTGGCCAGCCCCCTCCTGGCACCCCCACAGCCC  
CAGGCAGTGCTGGCGCCTGAAGCCCCACCTGTGGCGGCAGGCGTGGGGGCTGTGCTTGCCGCTGGAGCACTGCTT  
GGCTTGGTGGCCGGAGCTCTCTACCTCCGTGCCCGAGGCAAGCCCATGGGCTTTGGCTTCTCTGCCTTCCAGGCG  
GAAGATGATGCTGATGACGACTTCTCACC GTGGCAAGAAGGGACCAACCCCAACCTGGTCTCTGTCCCCAACCT  
GTCTTTGGCAGCGACACCTTTTGTGAACCTTCGATGACTCACTGCTGGAGGAGGACTTCCCTGACACCCAGAGG  
ATCCTCACAGTCAAGTGACGAGGCTGGGGCTGAAAGCAGAAGCATGCACAGGGAGGAGACCACTTTTATTGCTTG  
TCTGGGTGGATGGGGCAGGAGGGGCTGAGGGCCTGTCCAGACAATAAAGGTGCCCTCAGCGGATGTGGGC

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**FIGURE 1164**

MAGPRGLLPCLLAFCLAGFSFVRGQVLFKGC DVKTTFVTHVPCTSCAAIKKQTCPSGWLRELPDQITQDCRYEV  
QLGGSMVMSGCRRKCRKQVVQKACCPGYWGSRCHECPGGAETPCNGHGTCLDGM DRNGTCVCQENFRGSACQEC  
QDPNRFPGPDCQSVCSVHGV CNHGPRGDGSCLCFAGYTGP HCDQELPVCQELRCPQNTQCSAEAPSCRCLPGYTQ  
QGSECRAPNPCWPSPCSLLAQCSVSPKQQAQCHCPENYHGDGMVCLPKDPCTDNLGGCPSNSTLCVYQKPGQAF C  
TCRPGLV SINSNASAGCFAFCSPFSCDRSATCQVTADGKTSCVCRESEVGDGRACYGHLLHEVQKATQTGRVFLQ  
LRVAVAMMDQGC REILTTAGPFTVLVPSVSSFSRTMNASLAQQLCRQHIIAGQHILEDTRTQQTRRWWTLAGQE  
ITVTFNQFTKYSYKYKDQPQOTFNIYKANNIAANGVFHVVTGLRWQAPSGTPGDPKRTIGQILASTEAFSRFETI  
LENCGLPSILDGPGPFTVTFAPSNEAVDSL RDGRLIYLF TAGLSKLQELVRYHIYNHGQLTVEKLI SKGRILTMAN  
QVLAVNISEEGRILLGPEGVPLQRVDVMAANGVIHMLDGILLPPTILPILPKHCSEEQHKIVAGSCVDCQALNTS  
TCPPNSVKLDIFPKECVYIHDPTGLNVLKKGCA SYCNQTIMEQGCKGFFGPDCTQCPGGFSNPCYKGKNCSDGI  
QNGACLCFPDYKGIACHICSNPNKHGEQCQEDCGCVHGLCDNRPGSGGVCQQGT CAPGFSGRFCNESMGDCGPT  
GLAQHCHLHARCVSQEGVARCRCLDGFEGDGF SCTPSNPCSHPD RGGCSENAECVPGSLGTHHCTCHKGWSGDGR  
VCVAIDECELDMRGGCHTDALCSYVGPGQSRCTCKLGFAGDGYQCSPIDPCRAGNGGCHGLATCRAVGGGQRVCT  
CPPGFGGDGFSCYGDIFRELEANAHFSIFYQWLKSAGITLPADRRVTALVPSEAAVRQLSPEDRAFWLQPR TLPN  
LVRAHFLQ GALFEEELARLGGEVATLNPTTRWEIRNISGRVWVQNASVDVADLLATNGVLHILSQVLLP PRGDV  
PGGQGLLQQLDLVPAFSLFRELLOHHGLVPQIEAATAYTIFVPTNRSLEAQGNSSHL DADTVRHHVVLGEALSME  
TLRKGGHRNSLLGPAHWIVFYNHSGQFEVNHVPLEGPMLEAPGRSLIGLSGVLTVGSSRCLHSHAEALREKCVNC  
TRRFRTQGFQLQDTPRKSCVYRS GFSSRGCSYTC AKKIQVPDCCPGFFGTLCEPCPGGLGGVCSGHGQCQDRF  
LGSGECHCHEGFHGTACEVCELGRYGP NCTGVCDCAHGLCQEG LQGDGSCVCNVGWQGLRCDQKITSPQCPRKCD  
PNANCVQDSAGASTCACAAGYSGNGIFCSEVDPCA HGHGGCSPHANTKVAPGQRTCTCQDGYMGD GELCQEINS  
CLIHGGGCHIAECIPTGPQQVSCSCREGYSGD GIRTCELLDPCSKNNGGCSPYATCKSTGDGQRTCTCDTAHTV  
GDGLTCRARVGLELLRDKHASFFSLRLLEYKELKGDGPFTIFVPHADLMSNLSQDELARIRAH RQLVFRYHVVC  
RRLRSED LLEQGYATALS GHPLRF SEREGSIYLNDFARVVSSDHEAVNGILHFIDRVLLPPEALHWE PDDAPIPR  
RNVTA AAQGFYKIFSGLLKVAGLLPLLREASHRPFTMLWPTDAAFRALPPDRQAWLYHEDHRDKLAAILRGHMI  
RNVEALASDLPNLGPLRTMHGTPISFSCSRTRAGELMVGEDDARIVQRHLPFEGGLAYGIDQLLEPPGLG ARCDH  
FETRPLRLNTCSICGLEPPCPEGSQE QGSPEACWRFYPKFWTSPPLHSLGLRSVWVHPSLWGRPQGLGRGCH RNC  
VTTTWKPSCCPGHYGSECQACPGGPSSPCSDRGVCM DMSGSGQCLCRSGFAGTACELCAPGAFGPHCQACRCTV  
HGRCDEGLGGSGSCFCDEGWTGPRCEVQLELQP VCTPPCAPEAVCRAGNSCECSLGYEGDGRVCTVADLCQDGHG  
GCSEHANCSQVGTMTCTCLPDYEGDGWSCRARNPCTD GHRGGCSEHANCLSTGLNTRRCECHAGYVGDGLQCLE  
ESEPPVDRCLGQPPPCHSDAMCTDLHFQEK RAGVFHLQATSGPYGLNFSEAEAAQGAQAVLASFPQLSAAQQLG  
FHLCLMGWLANGSTAHPVVFPVADCGN RGVIVSLGARKNLSE RWDAYCFRVQDVACRCRNGFVGDGISTCNGKL  
LDVLAATANFSTFYGMLLGYANATQRGLDFLDFLDDELTYKTLFVPVNEGFVDNMTLSGPDLELHASNATLLSAN  
ASQ GKLLPAHSGLSLII SDAGPDNSSWAPVAPGTVVVSRIIVWDIMAFNGIIHALASPLLAPPQPAVLAPEAPP  
VAAGVGAVLAAGALLGLVAGALYLRARGKPMGFGFSAFQAEDDADDDFSPWQEGTNPTLVSVPNPVFGSDTFCEP  
FDDSLLEEDFPDTQRILTVK

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**FIGURE 1165A**

GCGGCGGTGGCGGCGGAGACCCGAACATGCGGACCGCGCGCACCTTCGGGCCCCGAGCGGGAAGCCGAGCCGGCCA  
AGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACACTTATACGGTTTACATCATCCAGGTCACTGATGGCAGCC  
ATGAGTGGACAGTAAAGCACCGCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGCAGAGAGAAAGATTG  
ATAAAAACCTGCTTCCGCCCAAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGGGAGAAGGATC  
TGGAGGTCTACCTCCAGAAGCTCCTGGCTGCCTTCCCTGGCGTGACCCCCAGAGTACTGGCCCACTTCTTGCAATT  
TTCACCTTCTATGAGATAAATGGCATCACCGCGGCACTGGCTGAAGAGCTCTTTGAGAAAAGGAGAACAGCTCCTGG  
GGGCCGGCGAGGTCTTTGCCATTGGACCCCTGCAGCTGTATGCCGTACCGAGCAGCTGCAGCAGGGAAAGCCCA  
CGTGCGCCAGTGGGGATGCCAAGACCGACCTCGGGCACATCCTGGACTTCACCTGTGCGCTTAAGTACCTTAAGG  
TTTCTGGCACAGAAGGACCTTTTGGGACCAGCAACATTACAGGAGCAGCTCCTGCCGTTTCGACCTATCAATATTCA  
AGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAAGCACATCAGAGGGCTGGTCGCATCGAAGCCACCT  
TAGCCACGCTGAGTGTCCGCTTCTCAGCAACCTCGATGAAGGAAGTCCTTGTTCCTGAAGCCTCAGAATTTGATG  
AGTGGGAGCCTGAAGGCACAACCCCTAGAAGGCCCTGTGACTGCCGTACATCCCACTTGGCAGGCATTGACCACGC  
TTGACCTGAGCCACAACAGCATCTCCGAGATCGACGAGTCTGTGAACTGATCCCAAAGATTGAGTTCTTGACC  
TGAGTCACAATGGATTGCTGGTTGTGGACAATCTGCAGCACCTGTATAACCTTGTGCATCTGGACCTGTCCTACA  
ACAAGCTCTCCTCCTTGAAGGGCTTACACCAAGCTGGGGAACATCAAGACCTTAAACCTGGCAGGCAACCTCC  
TAGAGAGTCTGAGTGGCCTGCACAAGCTCTACTACTGGTCAACCTGGATCTCCGGGACAACAGGATCGAACAGA  
TGGAGGAGGTCCGAGCATAGGCAGCCTCCCGTGTCTGGAGCAGTGTCTCTGCTGAACAACCTCTGAGCATCA  
TCCCCGACTACCGGACCAAGGTGCTGGCTCAGTTCCGAGAGAGGGCCTCAGAGGTCTGTCTGGATGACACAGTGA  
CCACAGAGAAGGAGCTGGACACTGTGGAAGTGTGAAAGCAATTCAGAAAGCCAAGGAGGTCAAGTCCAACTGA  
GCAACCCAGAGAAGAAGGGTGGTGAAGACTCCCGGCTCTCAGCTGCCCCCTGCATCAGACCCAGCAGCTCCCCTC  
CCACTGTGGCTCCCGCATCTGCCTCCCTGCCCCAGCCCATCCTCTCTAACCAAGGAATCATGTTCTGTTTCAGGAGG  
AGGCCCTGGCCAGCAGCCTCTCGTCCACTGACAGTCTGACTCCCGAGCACCAGCCATTGCCAGGGATGTTCTG  
ATTCTTGGAGTCCATCCCTGCGGGACAGGCAGCTTCCGATGATTTAAGGGACGTGCCAGGAGCTGTTGGTGGTG  
CAAGCCCAAGCATGCCGAGCCGAGGTCCAGGTGGTGGCGGGGTCTGGCCAGATCATCTTCTGCCCCTTACCT  
GCATTGGCTACACGGCCACCAATCAGGACTTCATCCAGCGCCTGAGCACACTGATCCGGCAGGCCATCGAGCGGC  
AGCTGCCTGCCTGGATCGAGGCTGCCAACCAGCGGGAGGAGGGCCAGGGTGAACAGGGCGAGGAGGAGGATGAGG  
AGGAGGAAGAAGAGGAGGAGCCTGGCTGAGAACCCTACTTTGAAATGGGGCCCCCAGACGTGGAGGAGGAGGAGG  
GAGGAGGCCAGGGGGAGGAAGAGGAGGAGGAAGAGGAGGATGAAGAGGCCGAGGAGGAGCGCCTGGCTCTGGAAT  
GGGCCCTGGGCGCGGACGAGGACTTCTGCTGGAGCACATCCGCATCCTCAAGGTGCTGTGGTGCTTCTGATCC  
ATGTGCAGGGCAGTATCCGCCAGTTCCGCCCTGCCTTGTGCTCACCAGCTTCGGCATCGCAGTCTTCGAGATCC  
CGCACCAGGAGTCTCGGGGCGAGCAGCCAGCACATCCTCTCCTCCCTGCGCTTTGTCTTTTGTCTCCCGCATGGCG  
ACCTACCGAGTTTGGCTTCTCATGCCGAGCTGTGTCTGGTGTCTAAGGTACGGCACAGTGAGAACACGCTCT  
TCATTATCTCGGACGCCGCCAACCTGCACGAGTTCCACGCGGACCTGCGCTCATGCTTTGCACCCACGACATGG  
CCATGCTGTGTAGCCCCATCCTCTACGGCAGCCACACCAGCCTGCAGGAGTTCTGCGCCAGCTGCTCACCTTCT  
ACAAGGTGGCTGGCGGCTGCCAGGAGCGCAGCCAGGGCTGCTTCCCGTCTACCTGGTCTACAGTGACAAGCGCA  
TGGTGCAGACGGCCGCCGGGACTACTCAGGCAACATCGAGTGGGCCAGCTGCACACTCTGTTACGCCGTGCGGC  
GCTCCTGCTGCGCGCCCTCTGAGGCCGTCAAGTCCGCCGCCATCCCCCTACTGGCTGTTGCTCACGCCCCAGCACC  
TCAACGTCTCAAGGCCGACTTCAACCCCATGCCAACCGTGGCACCCACAACCTGTCGAACCGCAACAGCTTCA  
AGCTCAGCCGTGTGCCGCTCTCCACCGTGTGCTGGACCCACACGCAGCTGTACCCAGCCTCGGGGCGCCTTTG  
CTGATGGCCACGTGCTAGAGCTGCTCGTGGGGTACCGCTTTGTCACTGCCATCTTCGTGCTGCCCCACGAGAAGT  
TCCACTTCTGCGCGTCTACAACCAGCTGCGGGCCTCGCTGCAGGACCTGAAGACTGTGGTTCATCGCCAAGACCC  
CCGGGACGGGAGGCAGCCCCCAGGGCTCCTTTGCGGATGGCCAGCCTGCCGAGCGCAGGGCCAGCAATGACCAGC  
GTCCCCAGGAGGTCCCAGCAGAGGCTCTGGCCCCGGCCCCAGTGGAAAGTCCCAGCTCCAGCCCCCTGCAGCAGCCT  
CAGCCTCAGGCCAGCGAAGACTCCGGCCCCAGCAGAGGCCTCAACTTCAGCTTTGGTCCCAGAGGAGACGCCAG  
TGGAAGCTCCAGCCCCACCCCGAGCCGAGGCCCTGCCAGTACCCGAGTGAGCACCTCATCCAGGCCACCTCGG  
AGGAGAATCAGATCCCCCTCGCACTTGCTGCTGCTGCCCCGTGCTCCGGCACGTGCGCCAGCCTGCGGGGCGAGCGCCA  
TCATCGAGCTCTTCCACAGCAGCATTGCTGAGGTTGAAAACGAGGAGCTGAGGCACCTCATGTGGTCTCGGTGG  
TGTTCTACCAGACCCAGGGCTGGAGGTGACTGCCTGCGTGCTGCTCTCCACCAAGGCTGTGTACTTTGTGCTCC

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**FIGURE 1165B**

ACGACGGCCTCCGCCGCTACTTCTCAGAGCCACTGCAGGATTTCTGGCATCAGAAAAACACCGACTACAACAACA  
GCCCTTTCCACATCTCCCAGTGCTTCGTGCTAAAGCTTAGTGACCTGCAGTCAGTCAATGTGGGGCTTTTCGACC  
AGCATTTCCGGCTGACGGGTTCACCCCGATGCAGGTGGTCACGTGCTTGACGCGGGACAGCTACCTGACGCACT  
GCTTCCTCCAGCACCTCATGGTCGTGCTGCTCTCTGGAACGCACGCCCTCGCCGGAGCCTGTTGACAAGGACT  
TCTACTCCGAGTTTGGGAACAAGACCACAGGGAAGATGGAGAACTACGAGCTGATCCACTCTAGTCGCGTCAAGT  
TTACCTACCCCACTGAGGAGGAGATTGGGGACCTGACGTTCACTGTGGCCCAAAAGATGGCTGAGCCAGAGAAGG  
CCCCAGCCCTCAGCATCCTGCTGTACGTGCAGGCCTTCAGGTGGGCATGCCACCCCTGGGTGCTGCAGGGGCC  
CCCTGCGCCCCAAGACACTCCTGCTCACCAGCTCCGAGATCTTCCTCCTGGATGAGGACTGTGTCCACTACCCAC  
TGCCCGAGTTTGCCAAAGAGCCGCCGCGAGAGACAGGTACCGGCTGGACGATGGCCGCCGCGTCCGGGACCTGG  
ACCGAGTGCTCATGGGCTACCAGACCTACCCGCAGGCCCTCACCTCGTCTTCGATGACGTGCAAGGTCATGACC  
TCATGGGCAGTGTCACCCCTGGACCACCTTTGGGGAGGTGCCAGGTGGCCCGGCTAGAGCCAGCCAGGGCCGTGAAG  
TCCAGTGGCAGGTGTTTGTCCCCAGTGCTGAGAGCAGAGAGAAGCTCATCTCGCTGTTGGCTCGCCAGTGGGAGG  
CCCTGTGTGGCCGTGAGCTGCCTGTGAGCTCACCGGCTAGCCCAGGCCACAGCCAGCCTGTCGTGTCCAGCCTG  
ACGCCTACTGGGGCAGGGCAGCAGGCTTTTGTGTTCTCTAAAAATGTTTTATCCTCCCTTTGGTACCTTAATTTG  
ACTGTCCTCGCAGAGAATGTGAACATGTGTGTGTGTGTTAATTCTTTCTCATGTTGGGAGTGAGAATGCCGG  
GCCCTCAGGGCTGTGGTGTGCTGTGAGCCTCCACAGGTGGTACAGCCGTGCACACCAGTGTCGTGTCTGCTG  
TTGTGGGACCGTTGTTAACACGTGACACTGTGGGTCTGACTTTCTTTCTACACGTCCTTTCTGAAGTGTCGAG  
TCCAGTCCTTTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGGCATCTTGCTGCTAATCCTGAGGCTGGTAG  
CAGAATGCACATTGGAAGCTCCCACCCCATATTGTTCTTCAAAGTGGAGGTCTCCCCTGATCCAGACAAGTGGGA  
GAGCCCGTGGGGGCAGGGGACCTGGAGCTGCCAGCACCAAGCGTGATTCTGCTGCCTGTATTCTCTATTCCAAT  
AAAGCAGAGTTTGACACCGTCTTAAAAA



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**FIGURE 1166**

MATARTFGPEREAEPAKEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFDLHEKLVAERKIDKNLLPPKK  
IIGKNSRSLVEKREKDLVYLQKLLAAPGVTPRVLAHFLHFHFEINGITAALAEELFEKGEQLLGAGEVFAIG  
PLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFPGTSNIQEQLLPFDLSIFKSLHQVEIS  
HCDAKHIRGLVASKPTLATLSVRF SATSMKEVLVPEASEFDEWEPEGTTLEGPVTAVIPTWQALTTLDSLHNSIS  
EIDESVKLIPKIEFLDLSHNGLLVVDNLQHLNVLVHLDLSYNKLSLEGLHTKLGNIKTLNLAGNLLESLSGLHK  
LYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDYRTKVLAQFGERASEVCLDDTVTTEKELDTV  
EVLKAIQKAKEVKSKLSNPEKKGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLS  
TDSLTPHEHQPIAQGCSDSLESIPAGQAASDDL RDVPGAVGGASPEHAEPVQVVP GSGQIIFLPFTCIGYTATNQ  
DFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQEEEEDEEEEEEDVAENRYFEMGPPDVEEEEGGQGEES  
EEEEDEEAEEERLALWALGADEDFLEHIRILKVLWCFLIHVQGSIRQFAACLVLTD FGI AVFEIPHQESRGSS  
QHILSSLRFVFCFPHGDLTEFGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILY  
GSHTSLQEFLRQLLTFYKVAGGCQERSQGCFFVYLVYSDKRMVQTAAGDYSGNIEWASCTLC SAVRRSCCAPSEA  
VKSAAIPYWLLLTPQHNLNVIKADFNPM PNRGTHNCRNRNSFKLSRVPLSTVLLDPTR SCTQPRGAFADGHVLELL  
VGYRFVTAIFVLPHEKFHFLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA  
LAPAPVEVPAPAPAAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPPAEAPAQYPSEHLIQATSEENQIPSHL  
PACPSLRHVASLRGSAIIELFHSSIAEVENEEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS  
EPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTRDSYLTHCFLQHLMVV  
LSSLERTPSPEPVDKDFYSEFGNKT TGKMENYELIHSSRVKFTYPS EEEIGDLTFTVAQKMAEPEKAPALSILLY  
VQAFQVGMPPPGCCRGPLRPKTL LLSSEIFLLDEDCVHYPLPEFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQT  
YPQALTLVFDVQGHDLMGSVTL DHFGEVPGGPASQGREVQWQVFVPSAESREKLISLLARQWEALCGREL PV  
ELTG

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**FIGURE 1167**

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCCTCTGCAGTCCTCAG  
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCT  
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT  
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCCCTGAACATGGAGAGTGT  
TGTTGCCCGCTGCCCATTTCTATCCCGAGTCCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA  
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATTGTCCACTGCAGCAGTACA  
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAACCTGCTAAGGCCAAGGTCCAACAGACTCC  
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGCTCTGGACACCCCTTGCCTGCCACAAGCCAGGGCAC  
TGCAAGCAAATGCCCTTTCCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA  
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT  
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAGCAAAGACC  
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTTGA  
GAAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAACCTGTGAACCGGCAGCACACATCTT  
CCCCATGGCAGATGACTATTGAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT  
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGTTGGGCAGGTGG  
TACTAGAAATATTTCTGGAAGTAGTAAATTCCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA  
TGCCGCACTCTTGTTTCTCGTGCTTTGTGGCCAATGACTCAACCTCTTCACCCTGGCTAAGATGATGCCAGG  
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGGAACAGCCGAGTGCCAAAGTA  
CATCTTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT  
GGCATTTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT  
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG  
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT  
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCCATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC  
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA  
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT  
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA  
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAAGAGCTCCTACGGATTGCCCCCACCCTCACCACAC  
ACCCAGATGATGAACTACTTCCCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA  
TTCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGTGAGTGAAAGAGAGAAGTCTTATTT  
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA  
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC  
ATAGTCCTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1168**

MESVVRRCPFSLSRVPQAFLOKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV  
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG  
PSVVSVKTDGGDP SGLLKNFQDIMQQRPERVSHLLQDNLPKSVSTFQYDRFFEKKIDEKKNDHTYRVFKTVNRR  
AHIFPMADDYSDSLITKKQVSVWCSDYLGMSRHRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL  
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV  
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV  
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQNRVCLMRQMLMDAGLPVVHC  
PSHIIPVRVADAANKTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE  
LKP HSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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**FIGURE 1169**

ATGCCCTACCAATATCCATTGCTGACCCCGGAGCAGAAGGAGCTGTCTGACATGACTCATCGCATCGTAGCTCTG  
GGCAAGGGCATCCCGGCTGCAGATGAGTCCACTGGGAGCACTGCCAAGTGGCTGCAGTCCATTGGCACCGAGAAT  
ACCGAGGAGAACCGGTGCTTCTACCGCCAGCTGTGGCTGACAGCTGACAACCGCGTGAACCCCTGCATCAAGGGT  
GTCATCCTCTTCCATGAGACGCTGTACCAAAGGCGGATGATGGGCGTCCCTTCCCCCAAGTTATCAAATCCAAG  
GGCAATGTTGTGAGCATCAAGTGTGTCAATGTCCTGGCCCACTATGCCAGCATCTGCCAGCAGAATGGCATTGTG  
CTCTTCTACTGCCAGTATGTAACCGAGAAGGTGTGGCTGCTCTACAAGGCTCTGAGTGACCATGACATCTACCTG  
GAAGGCACCTTGCTGAAGTCCAATATGGTCACCCCAGGCCATGCCTGCATCCAGAAGTTTTCTCATGAGGAGATT  
GCCATGGCAACTGTCACAAGCACTACACTCTGGGGAATAAGCGGCCTAGAAGGATCACAACTGGGCCAGAACAGG  
GCCCACCCAGACTCATCACTGAGGCAGAGCAAGGAAGTGTCCATCAACCTCAATGCCATTAACAAGTGCCCCCTC  
CTGAAGCCCTGGGGCCTGACCTTCTCATATAGCTGA

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**FIGURE 1170**

TTCCGGCGTTGTTGACCCTATTTCCCGTGCTGCACCGCAGCCCCTTTCTCTTCCGGTTCTAGGCGCTTCGGGAGC  
CGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACACACAACCAGTCCCGAAAATGGCACAGAAA  
TGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGGTGGACCCCAAGTTCCTGAGGAACATGCG  
CTTTGCCAAGAAGCACAAACAAAAAGGGCCTAAAGAAGATGCAGGCCAACAATGCCAAGGCCATGAGTGCACGTGC  
CGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTAAAGCCCAAGATCCCAAAGGGTGTGAGCCGCAAGCTCGA  
TCGACTTGCTTACATTGCCCCACCCCAAGCTTGGGAAGCGTGCTCGTGCCCGTATTGCCAAGGGGCTCAGGCTGTG  
CCGGCCAAAGGCCAAGGCCAAGGCCAAGGCCAAGGATCAAACCAAGGCCCAGGCTGCAGCCCCAGCTTCAGTTCC  
AGCTCAGGCTCCCAAACGTACCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGCCAACATGAGGACAGAA  
GGACTGGTGCAGCCCCCACCCTGCGCCCTGGGCTACCATCTGCATGGGGCTGGGGTCCTCCTGTGCTATTTGTA  
CAAATAAACCTGAGGCAGGAAA

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**FIGURE 1171**

MAKSKNHTTHNQSRKWHRNGIKKPRSQRYESLKGVDPKFLRNMRFKKHNNKGLKKMQANNAKAMSARAEAIKAL  
VKPKEVKPKIPKGVSRKLDRLAYIAHPKLGKRARARIAKGLRLCRPKAKAKAKAKDQTKAQAAAPASVPAQAPKR  
TQAPTKASE

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**FIGURE 1172**

GGGCGCTGAGAGGCGAGCGTGAGCCCAGCGACAGGAGAGTGAGCTCACCACGCGCAGCGCCATGACCAGCAAGGG  
TCCCGAGGAGGAGCACCCATCGGTGACGCTCTTCCGCCAGTACCTGCGTATCCGCACTGTCCAGCCCAAGCCTGA  
CTATGGAGCTGCTGTGGCTTTCTTTGAGGAGACAGCCCGCCAGCTGGGCCTGGGCTGTCAGAAAAGTAGAGGTGGC  
ACCTGGCTATGTGGTGACCGTGTGACCTGGCCAGGCACCAACCCTACACTCTCCTCCATCTTGCTCAACTCCCA  
CACGGATGTGGTGCCCTGTCTTCAAGGAACATTGGAGTCACGACCCCTTTGAGGCCTTCAAGGATTCTGAGGGCTA  
CATCTATGCCAGGGGTGCCCAGGACATGAAGTGCGTCAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGGT  
GGAGGGCCACCGGTTCCCCAGAACCATCCACATGACCTTTGTGCCTGATGAGGAGGTTGGGGGTCACCAAGGCAT  
GGAGCTGTTTCGTGCAGCGGCCTGAGTTCCACGCCCTGAGGGCAGGCTTTGCCCTGGATGAGGGCATAGCCAATCC  
CACTGATGCCTTCACTGTCTTTTATAGTGAGCGGAGTCCCTGGTGGGTGCGGGTTACCAGCACTGGGAGGCCAGG  
CCATGCCTCACGCTTCATGGAGGACACAGCAGCAGAGAAGCTGCACAAGGTTGTAAACTCCATCCTGGCATTCCG  
GGAGAAGGAATGGCAGAGGCTGCAGTCAAACCCCCACCTGAAAGAGGGGTCCGTGACCTCCGTGAACCTGACTAA  
GCTAGAGGGTGGCGTGGCCTATAACGTGATACCTGCCACCATGAGCGCCAGCTTTGACTTCCGTGTGGCACCGBA  
TGTGGACTTCAAGGCTTTTGAGGAGCAGCTGCAGAGCTGGTGCCAGGCAGCTGGCGAGGGGGTCACCCTAGAGTT  
TGCTCAGAAGTGGATGCACCCCCAAGTGACACCTACTGATGACTCAAACCCTTGGTGGGCAGCTTTTAGCCGGGT  
CTGCAAGGATATGAACCTCACTCTGGAGCCTGAGATCATGCCTGCTGCCACTGACAACCGCTATATCCGCGCGGT  
GGGGTCCCAGCTCTAGGCTTCTCACCCATGAACCGCACACCTGTGCTGCTGCACGACCACGATGAACGGCTGCA  
TGAGGCTGTGTTCCCTCCGTGGGGTGGACATATATACACGCCTGCTGCCTGCCCTTGCCAGTGTGCCTGCCCTGCC  
CAGTGACAGCTGAGCCCTGGAACCTCTAAACCTTTGCCCTGGGGCTTCCATCCCAACCAGTGCCAAGGACCTCC  
TCTTCCCCCTTCCAAATAATAAAGTCTATGGACAGGGCTGTCTCTGAAGTACTAACACAAGGACA

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**FIGURE 1173**

MTSKGP EEEHPSVTLFRQYLRI RTVQPKPDYGA AVAFFEETARQLGLGCQKVEVAPGYVVTVLTWPGTNPTLSSI  
LLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDMKCVSIQYLEAVRRLKVEGHRFPRTIHMTFVPDEEVG  
GHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSESPWWVRVTSTGRPGHASRFMEDTAAEKLHKVVNS  
ILAFREKEWQRLQSNPHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEG  
VTLEFAQKWMHPQVTPTDSDNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPALGFSPMNRTPVLLHDH  
DERLHEAVFLRGVDIYTRLLPALASVPALPSDS



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**FIGURE 1174**

CGCCAGCACGCGCCTGCTTCCCGTCTGCGCGAGTCCACGCAGCTCCCCAGATCAAGAAGCTGAGGCCCCAGGTTA  
CACACTAAAGTAAATGGCAGAGGCAGAAATAACACCTATGTCTCCTGACCCCAAGGCATGTTCTTAAAGTTCTG  
GAAACCTCCTGGAGGCTTCCTTGCTGCTCCTCTGGGACTGCCACCCTGGGCAGGGTGTTCTGTGGCCCCCTCATCA  
TCGTGGTTTTGAACCACAGGCCCTTCACCAGCACAGCAGCAGCAGGCATGCGCAGCAAGCGTGGAGCAGCGCGAGG  
GCACCATCCAGGTGCAGGGCCAGGCCCTCTTCTTCCGAGAGGCCCTGCCCGGCAGTGGGCAGGCTCGCTTCTCTG  
TACTGCTGCTGCATGGTATTCTGCTTCTCCTCCGAGACCTGGCAGAACCTGGGTACACTGCACAGGCTGGCCCAGG  
CTGGCTACCGGGCTGTGGCCATTGACCTGCCAGGTCTGGGGCACTCCAAGGAAGCAGCAGCCCCTGCCCCATTG  
GGGAGCTGGCCCCCTGGCAGCTTCCTGGCGGCTGTGGTGGATGCCTTGGAGCTGGGCCCCCGGTTGTGATCAGTC  
CATCACTGAGTGGCATGTACTCCCTGCCCTTCCTCACGGCCCCCTGGCTCCCAGCTCCCGGGCTTTGTGCCAGTGG  
CCCCATCTGCACTGACAAAATCAATGCTGCCAACTATGCCAGTGTGAAGACTCCAGCTCTGATTGTATATGGAG  
ACCAGGACCCCATGGGTGAGACAGCTTTGAGCACCTGAAGCAGCTGCCCAACCACCGGGTGCTGATCATGAAGG  
GGGCGGGGCACCCCTGTTACCTGGACAAACCAGAGGAGTGGCATAACAGGGCTGCTGGACTTCCTGCAGGGGCTCC  
AGTGAAGCCCAGCACTGCTGCAGGGGGTGGGCTGCCTGCCTGCTCTGAGCTCTCTCTTGCACGCTCTCTCTTCTC  
TCCCAGGCTCTGGCTCATGCACATGCAACAGGTGCGTCTGTCTATATGCTCTGGGTTCTTGTCTTTTGTGGTCTGT  
TTGTCTTTTCTACCTCTTTCTCTTGCAGTGATAGACTGAGGGGGTAAAATCAAGAGAAAAAACTCTCAGGAATCA  
AGGAACATAATCCTGTGGAGGGTAATCCATTACATGAGCTTCTCCTGTTCTTCCACTTTTCTGCCTGGCTTTTAC  
TCCTTCCCCTGCTCTGCCAGCCTTTCCCTCCCACCCACTCCTCCTTCTGCAAATGCCCTGAAGGCCAGCCCTTA  
CCCCAACACCCACTTCCCCACCTCCTTAGGCCCCAGATACATACATGCCACATGCACGCTTACATGTTTAGAGC  
CATCCTTGTTTCCAAATATGACCCTTCGCTTGAGGGCAACTGCATAGGTACATCTAACTCTGGACTGGCATGCAC  
ATTGTCATGTGCAGCTTTGCATATACACACATGCATACATGAGCCTCCACACAAGCACTTGCACACATGTGGACT  
CCTAACCATGCTAACCTCACTGGCTGGGAAGGTGGGGACCCCATGGGCCAGCCCTTGCAGGAGGCCCTTTTGCAA  
GGCTTAGGGTGTGGCCAGCCCTGAAAGCTACTTGGACACAGGTTTCAGCTGGCCCCAGCCCAGAAGTGACCCCCA  
GAAAGGGAGGGCCACCGCTTTGCCCCCTGCTTTTACCCTTCCTTCTGGGTGCTCTACACCTCAGGTTACCAGGCC  
TGAGGCATCTCAGCCAAGCTTGTTTCTGCTCTGAGGCTTGTGGGTGGGAGCCAGAGTGGAGGTCGGTGAAATA  
AAGTGATGCAATTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1175**

MAASVEQREGTIQVQGQALFFREALPGSGQARFSVLLHGGIRFSSETWQNLGTLHRLAQAGYRAVAIDLPGLGHS  
KEAAAPAPIGELAPGSFLAAVDALELGPPVVISPSLSGMYSLPFLTAPGSQLPGFVPVAPICTDKINAANYASV  
KTPALIVYGDQDPMGQTSFEHLKQLPNHRVLIMKGAGHPCYLDKPEEWHTGLLDLFLQGLQ

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**FIGURE 1176**

ATAACCCCTCATTGTTTCGCAGCTGATGTCACTCGCAGTTGTGAGCGGCCGCCTCTCCCGGGGACAATGTGGGACT  
GAGCGGCCAGCCGCCGTGCCGCCGCCGCCGCCGAGGACAGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGC  
GGACACACTCGCAGGTCGCTGTGGCCCCAGCCTCGCCTGACAGAAATGAGCGGCTCGGACGGGGGACTGGAGGAGG  
AGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGA  
AGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAAC  
GCATCACCAACATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGG  
ACCTTTGTGCTGCTCCTGCAAATGTTGGAAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTCATCCCTGCCA  
GTCAGTGTGGCTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCCAGGTAC  
AGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCCTGATGCCATCATCC  
TGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCTACCATCCGAGCC  
TCTCCCTAGGTACTGTTCTTCTCTCTGCCAACAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAG  
CTGAGGTCACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTTTGCCACACCCAGCGTGGTGCCAGGACTGG  
ATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGGTTCCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGG  
GCAGCAAGATCAGCGAGATCCGGCAGATGTCAAGGGGACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGG  
AGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGGCCAGTACCTCATCACTGCCTGTCTAGAGA  
CGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGA  
CGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCCATATGCCATCTCCCTCTCCAACCTTCATCGGCCTCA  
AGCCCATGCCCTTCTTGGCTTTTACCACCTGCTTCCCCAGGGCCGCCGCCGGGCTTGGCGGCCTACACTGCCAAGA  
TGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTGAGAGGCCAGCTGAGGTACAGGC  
AGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCC  
AAACGCCGCTAACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTTCTCTCAGAG  
TGGGGGCAGTTTCTGGCCCAGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTG  
CTTGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCC  
CTTAGGGCTTCTTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGCCAGGCTT  
CTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTGAAGTGAATGAAGTGGCTGGGCTTGT  
CAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGGCCAGTTCTCAGCA  
GCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAA  
AAAAAAA

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**FIGURE 1177**

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFSVQGQYGAVTPAEVTKLQQLSSHAVP  
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPTYAISLSNFIGLKPMPPFLALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1178**

CCTCTGGAGTCCCTGTGGCAGAACTCAAATGGAAGGAGGAGCAGCTGCACCCAGGGGAGCAGGGTGTACCTCCG  
TTGGATAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTCGCTGTGGCCCCAGCCTCGCCTGACAGAATG

AGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCTCAGCTGCGGATGCTGATGCACGGG  
AAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATC  
ACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTC  
TCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGGTGGAATGTCTCCAGGCCTCCA  
GTGACCCTGCGCCTTGTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAG  
ATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACG  
GTATCTGGGGTGCCTGATGCCATCATCCTGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAA  
GGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTC  
CAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTT  
GCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGAT  
TTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGGCAGATGTCAGGGGACACATATCAAG  
ATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGTCACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCC  
CAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGACGCCCAGCTCGGCCCCCGCAGAC  
CTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCC  
ATCTCCCTCTCCAACCTTCATCGGCCTCAAGCCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCG  
CCGGGCTTGGCGGCCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATCTCC  
CCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCCTACCC  
GCCCCAAGGAGACTCCACCCTGGGGTCCCCAAACGCCGCTAACGCCCAGACGCATGGATGCACCCCTACCCCTGCCT  
CCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGCAGTTTCTGGCCCAGGGGTCTGAGCTGCGGCAGCCCCAGGG  
CAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATG  
GCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTTCCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAG  
GGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTT  
TTGACTGGAATGAACTGGCTGGGCTTGTGAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTG  
GCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATAT  
TCTCAGCGACCA

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**FIGURE 1179**

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLÍGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGF SVQGQYGAVTPAEVTKLQQLSSHAVP  
FATPSVVPGLDPGTQTSSQEF LVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPTYAISLSNFIGLKPMPPFLALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1180**

ATTTCITTTTAGTGTCTCAGGGTAAGGGAAGGCTAGGTACCTACCATGTATGTGCTTATTGTTTTAATTCTCATC  
ACTCTTTGGAGATGGGAATTTGTATCCCCCTTCTACAGATGGAGAAGCTGAGGCTCAGAGGGTTGAATGGGCTCCC  
CAGGCTTACACAGCTCGTGAGACACACATAAGCACCCCTGGTCAGAGTGATGTGTGGCGCTCAAGGTCCATGCAGT  
CTCTTTCCTCTGGGAGTTTGACTAGCCCAGCTCTGGGGTCCCCATGTAAGGGCAGGGGCAGGGTGGACTGGGCTC  
CTCTCGAACCCCTCTTTGGCTGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTGCTGTG  
GCCCCAGCCTCGCCTGACAGAATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAACATCACCCCTC  
ACGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATC  
CGGGAGCAGGTGAGGATGGAGTTTGGGGGAGGAGCCCAGGGCACCTGATGTGGAGGGGAGATCCCTGCCCCACTT  
TCTCTCTGAACCACTCCTTCTGGGCTGACCAGTGAGTCCCCCAGAGGGTGGCAGTTTGTAGCCTTGCCCTCAGGCC  
TGGTGAGTGGGGCAGGCAGACAAGTTCCGGCAAGGGAGCAGGGAAGATGCCCCGCTGCCGGCGCTCATTCTATA  
TCTGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACACCATCACCGGGTCTAC  
AGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGG  
TGGAAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAA  
GGCTGGCACCAAGATCAAGGAGATCCGAGAGGTGAGGGGCGAGATATACCACCCACAGGGAATCCGGGGCAAGGG  
AGCAGTTGTAAGAGGGGTGTTGGGCTTATGGCGTCCCTCCCCACCTAGAGAGCTCTGAGCCTGGGCAGCCCTTTTC  
TGGGTTATGGGAGCAGCCAGAAGTGGCCCCCTGTTCTCTGTTTGCAGACTACGGGTGCCAGGTACAGGTGGCAGG  
GGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCTGATGCCATCATCCTGTGTGTGCG  
CCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCCTACCATCCGAGCCTCTCCCTAGG  
TACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTCAC  
CAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTTGCCACACCAGCGTGGTGCCAGGACTGGATCCCGGCAC  
ACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGAT  
CAGCGAGATCCGGCAGATGTCAGGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGT  
CACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCCCAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTC  
TACCTCTGGGGGGACGCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCC  
CACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTTCATCGGCCTCAAGCCCATGCC  
CTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCGCGGGCTTGGCGGCCCTACACTGCCAAGATGGCAGCAGC  
TAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGC  
AGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCT  
AACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGGCAGT  
TTCTGGCCCAGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACA  
GGGAGCAGCCAGGAGACTCCCTAGTGCCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTT  
CCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCAC  
CACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTGAAGTGAATGAAGTGGCTGGGCTTGTGAGGGGGCAC  
CCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTC  
TGTACAGTTTTTTCAATCCCTGTTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1181**

MPRCPALILYLQSSARITISEGSCPERITTTITGSTAAVFHAVSMIAFKLDEDLCAAPANGGNVSRPFVTLRLVIP  
ASQCGSLIGKAGTKIKEIREVRGEIYHPQGIRGKGAVVRGVLGLWRPPHLESSEPGQPFSGLWEQPEVAPVLCLO  
TTGAQVQVAGDLLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVQGG  
YGAVTPAEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFVLPNDLIGCVIGRQGSKISEIRQMSGAHIKIGN  
QAEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISL  
SNFIGLKPMPPFLALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSFY



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**FIGURE 1182**

GAATTCCGCCGCTGCTACACGCCTGGTGGGCAGCATGTCGGCAACAGCGGCTGCTCGTAAGCGGGGAAAGCCGGC  
CTCTGGGGCCGGGGCTGGCGCGGGGGCCGGCAAGCGGCGGCGAAAGGCCGACTCTGCGGGGGACAGGGGCAAATC  
CAAGGGTGGCGGCAAGATGAATGAGGAGATCTCCAGCGACTCTGAGAGCGAGAGCCTAGCTCCAAGGAAGCCTGA  
GGAGGAGGAGGAGGAGGAGCTGGAGGAACTGCACAGGAAAAGAAGCTGCGCTTGCCAAGCTCTACCTAGAGCA  
GCTCCGTACAGCAAGAGGAGGAGAAGGCTGAGGCCCGTGCATTTGAGGAGGACCAGGTGGCGGGGCGCCTGAAGGA  
GGATGTGCTTGAGCAGAGGGGCAGGCTGCAGAAGTTGGTGGCAAAAGAGATCCAGGCCCCAGCCTCAGCTGACAT  
TCGCGTTTTTACGGGGGACACAGCTCTCTATCACATGTTTTGGTCGTCACCCCCGATGACTCAGCCATCTTCTCTGC  
TGCCAAAGACTGCAGCATCATTAAGTGGAGCGTGGAGAGTGGACGGAAGCTGCATGTGATTCTCGAGCCAAGAA  
GGGTGCCGAGGGAAAGCCCCCTGGCCACAGCAGCCACGTCTCTGCATGGCCATCTCCTCCGACGGCAAGTACCT  
TGCTCTGGTGACCGCAGCAAGCTCATTCTCATTGGGAGGCCACCCACCAGCTCTACAGCACATCCCACGATCGCTC  
ACACCGGGATGCAGTGTGCGGTCTGGCATTCCGCAGAGGCACCCACCAGCTCTACAGCACATCCCACGATCGCTC  
CGTGAAGGTGTGGAATGTGGCAGAGAACTCCTACGTGGAGACGCTCTTCGGACACCAGGACGCTGTGGCTGCACT  
GGATGCCTTGAGCCGGGAGTGCTGTGTGACGGCTGGGGGCCGGGATGGGACTGTACGTGTGTGGAAGATCCCCGA  
GGAGTCCCAGCTTGTCTTCTATGGCCACCAGGGCTCCATCGACTGCATCCACCTAATCAATGAGGAGCACATGGT  
GTCCGGCGCGGACGATGGCTCTGTGGCCTTGTGGGGTCTCTCCAAGAAGCGACCACTTGCCCTGCAGCGTGAAGC  
TCACGGGCTGCGGGGAGAGCCAGGCCTGGAGCAGCCCTTCTGGATATCGTCGGTGGCAGCCCTCCTCAACACAGA  
CCTTGTGGCCACAGGCTCCCACAGCTCCTGTGTGCGGCTTTGGCAGTGTGGGGAAGGCTTCGGGCAGCTTGACCT  
TCTCTGTGACATCCCCCTGGTGGGTTTTATCAACAGCCTCAAGTTCTCCAGCTCTGGGGACTTCCTGGTGGCTGG  
GGTAGGGCAGGAGCACAGGCTTGCCGATGGTGGAGAATCAAAGAGGCTCGGAATTCTGTCTGCATCATCCCCT  
CCGACAGGTCCCTGTACCCCCAGCTGCTGGTTCCTGACACTCTTATCCTCCTTATTTAAGTCCTTCCCAGGCTAT  
GCCCCACCCTCTTTGAAGCTT

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**FIGURE 1183**

MSATAAARKRGKPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETA  
QEKKLRLAKLYLEQLRQQEEEEKAEARAFEEDQVAGRLKEDVLEQGRRLQKLVAKEIQAPASADIRVLRGHQLSIT  
CLVVTTPDDSAIFSAAKDCSIKWSVESGRKLHVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILI  
WEAQSCQHLYTFTGHRDAVSGLAFRRGTHQLYSTSHDRSVKVVNVAENSYVETLFGHQDAVAALDALSRECCVTA  
GGRDGTVRVWKIPEESQLVIFYGHQGSIDCIHLINEEHVMVSGADDGSVALWGLSKKRPLALQREAHGLRGEFPLEQ  
PFWISSVAALLNTDLVATGSHSSCVRLWQCCEGFRQLDLLCDIPLVGFINSKFSSSGDFLVAGVGQEHRLGRWW  
RIKEARNSVCIIPLRVPVPPAAGS

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**FIGURE 1184A**

GCAGCTTAGGCGCCACCAAGGCAAGAACCTAGCCTCCGAGGACCCCAAAAAGAAGAGAGCTCAGAAGCCCTCCCA  
CATGAGAAGAAACATACGAAAGCTACTCCGGGAGGATCAATTGGAGCCTGTTACCAAAGCAGCACAGCAAGAAGA  
GTTGGAAGAAGGAAGCGCCTGGAGCAGCAGAGGAAAGATTATGCAGCCCCTATTCTACTGTTCCGCTGGAGTT  
CCTCCCTGAGGAAATTGCTTTAAGGGCAAGTGACGGTCCCCAACTGCCTCCTCGGGTCTTGGCCCAGGAAGTCAT  
TTGTTTGGACAGTAGCAGTGGCAGTGAGGATGAAAAAAGCAGTCGAGATGAGGTGATTGAACTGAGCTCTGGAGA  
GGAGGACACTCTGCACATTGTGGACAGCAGTGAATCTGTCACTGAAGATGATGAGGAAGAAGAGAAGGGTGGCAC  
CCATGTCAATGATGTCTTAACCAGCGTGACGCCCTTGGGCGGGTCTTGTCAACCTAAACCACCCCTCCAGAGGA  
GGAAAATGTCTTCTTGGCCCCACAGTTGGCACGGGCTGTGAAACCTCATCAGATTGGCGGGATCCGGTTCTTTA  
CGATAACCTAGTGGAGTCTCTGGAGAGGTTTAAAGACCAGCAGTGGCTTTGGCTGTATTCTGGCCCCACAGCATGGG  
TCTGGGGAACCTTTGCAAGTGATCTCTTTTCATCGACGTCTCTTCCGCCACACGCCAGCCAAAACAGTCCTTGC  
CATTGTGCCGGTTAATACTCTTCAGAATTGGCTGGCAGAGTTCAACATGTGGCTTCCACCTCCTGAAGCCCTCCC  
GGCTGACAACAAGCCTGAAGAAGTCCAGCCTCGGTTCTTTAAAGTTCACATCTTGAATGATGAGCACAAGACGAT  
GGCATCTCGTGCTAAAGTGATGGCTGATTGGGTGTCAGAGGTGGCGTGCTGCTGATGGGGTACGAGATGTACAG  
ACTCCTCACTCTGAAGAAATCATTGTCACAGGTAGACCGAAGAAACCAAGAAGCGTTCTCACCCAGTCATCAT  
TGATCTAGATGAGGAAGATCGGCAGCAGGAGTTTCGGAGAGAGTTTGAGAAGGCTTTATGCCGCCCTGGCCCTGA  
TGTAAGTAATCTGTGATGAGGGACACCGCATCAAAAACCTGCCAGGCCAGCACCTCACAGGCTCTGAAGAATATCCG  
CTCTCGCCGCCGGGTGGTGCTGACTGGGTACCTCTGCAAAACAACCTCATTGAGTACTGGTGCATGGTGGACTT  
TGTGCGCCAGACTTCCTTGGCACCCGGCAGGAGTTCAGCAACATGTTTGAACGCCCTATCCTGAATGGGCAATG  
TATTGACAGCACACCTCAGGACGTCCGCCTCATGCGGTACCGGAGCCATGTCCTGCACAGTCTTCTGGAGGGCTT  
TGTGCAGAGGAGAGGCCACACTGTGCTGAAGATTCTCTCCCTGCCAAGGAAGAAAATGTGATCCTTGTGCGGCT  
CTCCAAGATCCAGCGAGATTTGTATACACAGTTCATGGATCGCTTCCGGGACTGTGGTAGCAGCGGTTGGCTGGG  
GCTGAACCCCTTAAGGCATTCTGTGTGTGTTGCAAGATCTGGAATCACCTGATGTGCTGTATGAAGCCCTTCA  
GAAGGAGAGCTTGGCCAATGAGCAGGACCTAGACGTGGAAGAACTTGGCTCTGCAGGGACCAGTGCCCGCTGTCC  
ACCACAGGGAACAAAAGGCAAGGGAGAGGATAGCACCTTGGCTTCTCGATGGGAGAGGCAACCAATAGCAAGTT  
CCTACAGGGCGTTGGCTTCAACCCTTTCCAGGAGCGAGGCAACAACATTGTACATATGAATGGGCCAAGGACCT  
TCTGACTAATTACCAGACTGGAGTCTAGAAAACCTCTCCCAAGATGGTACTGCTTTTCCACCTGATTGAGGAAAG  
TGTGAAGCTTGGGGACAAGATCCTTGTGTTTAGCCAGAGTCTTTCCACCTTGGCTCTCATCGAGGAATTCCTTGG  
AAAACGAGAAGTACCCTGTCCACCTGGTACCGAGGGGCAAGGAGCACAGAAGTGGGTTGAAACATCAGCTACTT  
CCGGCTAGATGGTAGCACCCCTGCCTTTGAGAGGGAGCGGCTTATTAATCAGTTCAATGATCCCAGCAACCTCAC  
CACCTGGCTGTTCTTCTCTCTACAAGGGCCGGATGCTTGGGTGTGAATCTGATTGGTGCCAACCGAGTGGTGGT  
GTTTGATGCTTCTTGAACCTTGGCATGATGCCCAGGCAGTATGTCGGGTATACCGTTATGGCCAGAAAAAGCC  
CTGTTACATCTATCGCCTTGTGGCTGATTACACTCTAGAAAAGAAGATCTATGACCGTCAGATTCCAAGCAGGG  
CATGTGATCGGGTGGTGGATGATCTAAATCCAATGCTGAACCTCACACGGAAGAGGTGGAAAACCTACTGCA  
CTTTGTTGAGAAGGAGCCAGCTCCCCAAGTTTCTTGAACGTAAAGGGGATCAAGGAGTCAGTCCTGCAACTGGC  
CTGTCTGAAGTACCCTCACCTCATCACCAGGAGCCTTTCGAGCATGAGTCATTGCTCTTGAACCGAAAGGATCA  
CAAGCTAACCAAGGCTGAGAAAAAGCAGCAAGAAAAAGCTATGAGGAAGACAAACGCACATCAGTCCCTATAC  
CCGCCATCGTATGCGCAGTATTACCTGCCAGCGATCAGAGCCTGACCAGCATCCCCGCCTTACGCCAGAGAAA  
CTGGCAGCCAACCTTGAAGGGTGATGAAAAGCCTGTGGCCAGTGTTCGTCTGTGCAGTCCACCCCATCCCCAT  
GATGCCCCGGCATGTCCATTGGGAGGAAGTGTAAGCTCTGCCTCCAGCACAAATCCATCCATGAACTTTCCCAT  
CAACTACTTGCAGCGTGCAGGAGTCTTGTGCAGAAGGTGGTCACCACGACAGATATTGTTATTCTGGACTCAA  
CAGCTCCACAGATGTACAGGCAAGAATTAATGCTGGTGAGAGCATCCACATCATCCGTGGGACAAAAGGGACGTA  
CATCCGTACCAGTGATGGACGGATCTTTGCTGTCCGGGCAACTGGCAAACCAAGGTTCTTGAAGATGGTCCGAT  
GGCTGCCTCAGGTTCCCAGGGACCTTCTTGCGAGTCCACAAGCAACGGCAGACACAGTGCCTCATACCCAAAGC  
CCCCGACCCTGAGGGGCTGGCCAGGCCCGTCTCTCCTGACAGCCCAGAGATCATCAGTGAGCTTCAGCAGTATGC  
AGATGTGGCTGCTGCCCGGAATCCCGTCAGAGCTCCCCAAGCACCAATGCCGCCCTGCCTGGCCCCCGGCCCA  
ACTTATGGACAGCAGTGCTGTTCCCGGGACAGCTCTCGGAACTGAGCCTCGACTAGGGGGTCAATTGCCTCAATAG  
TTCCCTCTTGGTGAAGTGGCCAGCCCTGTGGTGACAGGCACCCAGTGCTGGACTTAAGGGGGCCACAAGCGAAAGTT  
GGCCACACCACCTGCTGCCAGGAGTCATCCCGCCGGCGGTCCAGGAAGGGTCATCTGCCAGCCCCCGTGCAGCC

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**FIGURE 1184B**

GTATGAACACGGGTATCCAGTCTCTGGCGGGTTTGCCATGCCACCCGTCTCCTTAAACCATAACCTCACCACCCC  
CTTCACCTCCCAGGCTGGGGAGAACTCCCTGTTTATGGGCAGTACCCCTCCTACTACCAGCTGTCCAATTTGCT  
GGCAGATGCCCCGCTGGTGTTTCCAGTGACTACTGACCCTCTGGTGCCAGCAGGCCCGTCAGTTCCTCTTCCAC  
GGCTACCTCAGTCACTGCCAGCAACCCCTCCTTCATGCTCAACCCCTTCTGTGCCAGGGATACTACCCAGCTATTC  
ACTCCCATTTCTCACAGCCACTCCTGTCCGAGCCGAGGATGTTTGCGCCTTTTCCTTCCCCTGTCTTGCCAGCAA  
CCTTTCGCGGGGCATGTCTATCTATCCAGGCTACATGTCCCCACATGCAGGCTACCCAGCTGGTGGCCTCCTACG  
GTCCCAGGTGCCTCCATTTGACTCTCATGAGGTTGCCGAGGTTGGGTTTCAGCTCCAATGATGATGAGGATAAAGA  
CGATGATGTGATAGAGGTCCTGCGGAAATAGCTAGGGAGCCCTCCCCACCTCACTTGGGGCCCCAGCAGGTTG  
CCCACCAAGCTGAAAGGCAGTGATTTAGACCTTTTGAGAATAGGACACTTGGCAGGAGGGAAAAGGAAGAGGACA  
AAGGAGGGTGGTTGGCCAAAGTGGCAGAGCTCTGTTGCTGTTTAACAAAAGAGGC

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**FIGURE 1185**

MRRNIRKLLREDQLEPVTKAAQQEELERRKRLEQQRKDYAAPIPTVPLEFLPEEIALRASDGPQLPPRVLAQEV  
CLDSSSGSEDEKSSRDEVIELSSGEEDTLHIVDSSESVSSEDDEEEKGGTHVNDVLNQDALGRVLVNLNHPPEE  
ENVFLAPQLARAVKPHQIGGIRFLYDNLVESLERFKTSSSGFCILAHSMGLGKTLQVISFIDVLFRTPAKTVLA  
IVPVNTLQNWLAEFNMWLPPPEALPADNKPEEVQPRFFKVHILNDEHKTMASRAKVMADWVSEGGVLLMGYEMYR  
LLTLKKSFATGRPKKTKKRSHPVII DLDEEDRQQEFRREFEKALCRPGPDVVICDEGHRIKNCQASTSQALKNIR  
SRRRVVLTGYPLQNNLIEYWCMVDFVRPDLGTRQEF SNMFERPILNGQCIDSTPQDVRLMRYRSHVLHSLLEGF  
VQRRGHTVLKIHLPAKEENVILVRLSKIQRDLYTQFMDRFRDCGSSGWLGLNPLKAFVCCKIWNHPDVL YEALQ  
KESLANEQDL DVEELGSAGTSARCPPQGTGKGEDSTLASSMGEATNSKFLQGVGFNPFQERGNNIVTYEWAKDL  
LTNYQTGVLENSPKMVLLFHLIEESVKLGDKILVFSQSLSTLALIEEFLGKREVP CPPGTGEGQAQKWVRNISYF  
RLDGSTPAFERERLINQFNDP SNLTTWLFLLSTRAGCLGVNLIGANRVVVDASWNPCHDAQAVCRVYRYGQKKP  
CYIYRLVADYTLLEKKIYDRQISKQMSDRVDDLNPMNLNFTRKEVENLLHFVEKEPAPQVSLNVKIKESVLQLA  
CLKYPHLITKEPFEHESLLLNRKDHKLTKAEKKA AKKSYEEDKRTSVPYTRPSYAQYYPASDQSLTSIPAFSQRN  
WQPTLKGDEKPVASVRPVQSTPIPMMPRHVPLGGSVSSASSTNPSMNEP INYLQAGVLVQKVVT TTDIVIPGLN  
SSTDVQARINAGESIHIIRGTRKGTIIRTS DGRIFAVRATGKPKVPEDGRMAASGSQGPSCESTSNGRHSASSPKA  
PDPEGLARPVSPDSPEI ISELQQYADVAAARESQQSSPSTNAALPGPPAQLMDSSAVPGTALGTEPRLGGHCLNS  
SLLVTGQPCGDRHPVLDLRGHKRKLATPPAAQESSRRRSRKGHLPAPVQPYEHGYPVSGGFAMPVSVLNHNLTTP  
FTSQAGENSLFMGSTPSYYQLSNLLADARLVFPVTTDPLVPAGPVSSSSTATSVTASNPSFMLNPSVPGILPSYS  
LPFSQPLLSEPRMFAPFPSPVLP SNLSRGM SIYPGYMSPHAGYPAGGLLRSQVPPFDSHEVAEVGFSSNDDDKD  
DDVIEVTGK

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**FIGURE 1186**

GCCACCGCCGCGCCGAGTCCTTTTGTCCAAGATGGCGGCGCCGGGGGCGCTGCCTCCTCGGCCGCCGCCTCCGCC  
GCCGCCGCTGTGAGAAACCTACGGGCGCGCCGCCGCCGCCGCCGCCAGCGCCATGAAGCGGCAGAGCGAGCGAGACTC  
TAGCCCCGAGCGGGCGCGGCTCGTCATCGTCCGCCAAGCGTCCGCGGGAGCGCGAACGGGAGGCGGAGGCGGGCGG  
GCGGCGGGCGGCGCACAAAGGCCTCTGGCGGCGCCAAGCACCCGGTTCCAGCGCGGGCCCCGCGACAAACCCCGCGG  
CAGCGGAAGCGGCGGGGGCGGGCATCGCGACGGCCGCGGCACCGGGGACGCGAATCACCGCGCGAGTAGCGGGCG  
CTCCTCGGGCTCCGGCGCTGGCGGCGGGGGACGCGGCGGCAAGGCCTCGGGGGACCCGGGCGCCTCCGGCATGTC  
GCCCCGCGCTCTCCTCTGCCGCCGCTCCGCCACCGCCTGGGGCCGAGCCCGCGTGTCCCGGCTCATCCGCGGC  
CGCGCCTGAGTACAAGACGTTGCTCATCAGCAGCTTGAGCCCCGCGCTGCCCGCCGAGCACCTCGAGGACCGGCT  
CTTCCACCAGTTCAAGCGCTTCGGCGAGATCAGCCTCCGCTGTGCGACACGCCTGAGCTGGGCCGTGTGGCCTA  
CGTGAATTTCCGGCACCCACAGGACGCACGCGAGGCCCCGCCAGCACGCCCTGGCCCCGCGAGCTGCTGCTCTACGA  
CCGCCCCGCTCAAGGTAGAGCCCGTGTACCTGCGTGGCGGCGGCGGGAGCAGTCGGCGAAGTAGCAGCAGCAGCGC  
CGCCGCTTCCACGCCTCCCCCAGGGCCGCCCGCGCCCGCGGACCCGCTCGGCTACCTCCCGCTACACGGAGGCTA  
CCAGTACAAGCAGCGCTCGCTGTCCCCGCTGCTGCCCCGCCCCCTGCGGGAGCCCCGTGCCCGTCACGCCGCCGC  
AGCCTTCGCCCTGGATGCCGCTGCTGCCGCCGCCGCTGGGACTGTCCCGGAGCGGGCCCTGGACTACTACGGGCT  
GTACGACGACCGTGGGCGCCCCCTATGGCTACCCAGCTGTGTGTGAGGAGGACCTGATGCCCGAGGATGACCAGCG  
GGCCACGCGCAACCTCTTCATTGGTAACCTGGACCACAGCGTATCTGAGGTGGAGCTGCGAAGGGCCTTCGAGAA  
ATATGGCATCATCGAGGAGGTGGTCATCAAGAGGCCTGCCCGTGGCCAGGGCGGTGCCTATGCCTTCCTCAAGTT  
CCAGAACCTGGACATGGCCCATAGGGCTAAGGTGGCCATGTGCGGCCGAGTGATTGGTCGCAACCCCATTAAGAT  
AGGCTATGGCAAGGCCAACCCCACTCTGCTCTGCGGTGGGTGGCTGGGACCTAACACGTCACTGGCGGCTCT  
GGCCCGAGAGTTTGACCGCTTTGGGAGCATTGCGACCATTGATCACGTCAAAGGAGATAGCTTTGCCTATATTCA  
GTACGAGAGCTTGAGCGCAGCCCAGGCCGCTGTGCTAAAATGAGGGGTTTTCCCTTGGGTGGACCAGACCGCAG  
GCTCCGCGTGGAATTTGCCAAAGCAGAGGAGACTCGGTACCCCCAGCAGTACCAGCCCTCGCCACTCCCTGTGCA  
TTATGAGCTGCTCACAGATGGATACACCGGCACCGCAACCTGGACGCCGACCTGGTGCGGGACAGGACGCCCCC  
ACACCTTCTGTACTCAGACCGAGACCGGACTTTTTTGAAGGGGACTGGACCAGCCCCAGTAAAAGCTCTGACCG  
CCGAAACAGCCTTGAGGGCTACAGTCGCTCAGTGCGCAGCCGGAGTGGTGAGCGTTGGGGGGCAGATGGAGACCG  
TGGTTTGCCCCAAGCCCTGGGAAGAGAGGCGGAAACGGAGAAGCCTTTCCAGTGACCGTGGGAGGACAACCCATT  
ACCATATGAGGAACGGAGTAGGACCAAGGGCAGTGGGCAGCAGTCAGAGCGGGGCTCCGACCGCACCCCTGAGCG  
CAGCCGCAAGGAGAACCACTCCAGTGAAGGGACCAAGGAGTCCAGCAGCAACTCCCTCAGCAACAGCAGACATGG  
GGCTGAGGAACGGGGCCACCACCACCACCACGAGGCTGCAGACTCTTCCCACGGGAAGAAGGCAAGAGACAG  
CGAGCGCAATCACCGGACCACAGAGGCCGAGCCCAAGCCTCTGGAAGAGCCAAAACAGAGACCAAAAAGCTGAA  
GAATCTTTCAGAGTACGCTCAGACACTACAGCTGGGTTGGAATGGGCTTCTGGTGTTGAAAAACAGCTGCTTCCC  
CACGTCTATGCATATCCTAGAGGGGGACCAGGGGGTGATCAGCAGTCTCCTCAAAGACCACACTTCTGGGAGCAA  
GCTGACCCAGCTGAAGATCGCCAGCGCCTTCGACTGGACCAGCCCAAGCTTGACGAGGTCACACGACGCATCAA  
GCAGGGGAGCCCCAACGGCTATGCGGTCCTCTTAGCCACCCAGGCAACCCCCAGTGGGCTTGGCACTGAGGGGAT  
GCCACAGTAGAGCCCCGGTCTGCAGAGGCGGCTTCTCAGGAACCTGGTCTCCTACTTGAAACAGAAGCAGGCCGC  
AGGGGTGATCAGCTTGCCAGTGGGGGGGTCCAAGGGCAGAGACGGCACAGGCATGCTCTACGCCTTCCCACCTG  
CGACTTTTCCCAGCAGTACCTCCAGTCAGCACTAAGGACATTGGGCAAGCTAGAAGAAGAACACATGGTGATAGT  
CATCGTCAGAGACACTGCCCTAGCCCAAGCCTGTCTTTCCAGCGTCATGTTTGTGTCACAAAAGCAGTTATTTTA  
AAATCTGATCCCCCTCTCTACCTACCACTTTGGTTTGAATTATCTCCTGGGTATTTTGGTTTCATTTGGGTGGGG  
ATCAAAGTCCTGTCCACCACCAAACTAAGTTCTTAGATTTTGGGGGATTTTTTTTTTAAACGATGAGAAGGGA  
ATCCGGTTATGTTGATTTCTAGTGTACAAGATACTGTCTGCTGTGGTTCTGTATTTTTTTTATTTTTTGACCACT  
GTATGGAAAGTTGTCAGTAAACCTTTGACAGAGGATGGATTTTTTAAACCTG

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**FIGURE 1187**

CTTCCGTCGCTGCTGTAGTCGCTTCCTGCGGCCAGCCCGGGTTCAATCAGCGGCCGACAACTGTCTAGGGCTCAG  
ACACCACCAGCCAATGAGGGAGGGCAGCGTGAGCCGCCCGTCTGGGCTCGCGGCTCCTGGACCAATGGGGAAGT  
GGCATGTGGGAGGGCGCCGGGGGGCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGGAGGCGGTGC  
GGCGCGGCGGGTGCGGTTTCAGTCGGTCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGATGA  
GGAGGATGTGGGCCACGCAGGGGCTGGCGGTGGCGCTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCGGC  
CGGGCGACTGCGAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCT  
CACCAGCCACTATTGAAAACGAACCTTATAAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACT  
ATATCGGGGCCACAGATGATGCAGCCACCAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTG  
TGGAGAAGATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACC  
TGAGCACAGTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCA  
AAGGCTGTGCAGAAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCA  
GTGCACGGACCGATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCC  
CAAAACAGCCTTTTTGTAAATTTATTTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTT  
TCCTGATGATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTT  
CAAAGTGTGCTGGGATTTTTTTATTAAAGAAAAAAATTTCTAGCTGTC

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**FIGURE 1188**

ACCAGCCCAGCCTTTCAGTGCAGGCTCCAGCCCTCCACCCCCACCCGAGTTGCAGGATGTCGATGACAGACTTGC  
TGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACTCCTTCGACCACAAAAAGTTCTTCC  
AAATGGTCGGCCTGAAGAAAAAGAGTGC GGATGATGTGAAGAAGGTGTTTCACATGCTGGACAAGGACAAAAGTG  
GCTTCATCGAGGAGGATGAGCTGGGATTCATCCTAAAAGGCTTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAG  
AAACCAAGATGCTGATGGCTGCTGGAGACAAAGATGGGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGG  
TGGCTGAAAGCTAAGAAGCACTGACTGCCCCTGGTCTTCCACCTCTCTG



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**FIGURE 1189**

MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKGFSPDA  
RDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

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**FIGURE 1190**

CCGCGCCAGTCGCCTAGCAGGTCCTCTACCGGCTTATTCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGAG  
ACGTTTCTGCCTCCCTCTTTCTTCCTCCGCTCTTTCTCTTCCCTCTCGTTTAGTTGCCTGGGAGCTTGAAAGGA  
GAAAGCACGGGGTCGCCCCAAACCCCTTCTGCTTCTGCCCATCACAAGTGCCACTACCGCCATGGGCCTCACTAT  
CTCCTCCCTCTTCTCCCGACTATTGGCAAGAAGCAGATGCGCATTTTGATGGTTGGATTGGATGCTGCTGGCAA  
GACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCTACCATTGGTTTTAATGTGGAAAC  
AGTAGAATATAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGTCAAGATAGAATTAGGCCTCTCTGGAAGCA  
TTACTTCCAGAATACCCAGGGTCTTATTTTTGTGGTAGATAGCAACGATCGTGAAAGAATTCAGGAAGTAGCAGA  
TGAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAGAGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTT  
GCCAAATGCTATGGCCATCAGTGAAATGACAGATAAACTAGGGCTTCAGTCTCTTCGTAACAGAACATGGTATGT  
TCAAGCCACTTGTGCAACACAAGGAAGTGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTTCAAAACG  
TTAAATGAAATTGGATATCTAACCAAGGACATGTTTGATAAAATTGGTCTAGGCTTGTTACAACAAAATTAGTTT  
GTATCTTGGTTATTAAACAGTATCTGGGACTGGTTTGGGCAGAAATATTAACTTATTTTGTGGCAATTATTGTT  
TACCGAGTATAATGTTGCTATTTAGCAATGTGCTTGGTTTTAAAGAAATTCTCCTTGGGAAAAAAGTATCCTCTT  
TTAATTTTACTTCCCATAGCGTAAATGCCTGGACATAGCTCTTGTGCAACCTTTAAATAAAATTGTTTTGAGTGT  
TTTTTGAGCCCCAGACAAATAATGTTTTAAAGTTATCCCCTTGCTACTTTACTGATACCTTTATCATTCCTGAGA  
CAGTTTGCTAATTTAAAAATGTAGCATTCATTTGTATTTATTTCTCTCCCTTGCCAAAAAGATTTTCTAATACT  
GCTTGTACCAGCCAGAGAAAGATCCAAAACACTACTCAGCTCTCTTGCACTGAGGAAATTTTCCCCCTACATTG  
ACTCCTGGCCTACATCAGCCAACTTAACCTTGGTGGGGTTTGGATTGATAGCCAATTAGTTCGTGTGCTGGTTG  
CAAAGAATTGATATTTAGATGGTTTTTAATACTCAGCAGATTGCTTCTTTATATTGTGTCTTTTTTATGTTGC  
ATGTTGCTTTTGTATCAGCCTGATTTTTTGTCTCAGTATATGATAGTTCTGCTGATGTTTTGTTTATTGGGCAGA  
CATATCTTCATTAAGAGTTTTTGGAAAACCTACCAAATTCGATGAATACATTTTCTTCTTAACCCATTCGGAATT  
ATTCCTAATAAAATGATAAAATACGT

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**FIGURE 1191**

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDRIR  
PLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDELRAVLLLFANKQDLPNAMAISEMTDKLGLQSLRN  
RTWYVQATCATQGTGLYEGLDWLSNELSKR

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**FIGURE 1192**

TCAGGAATCGGGATTAAAAGTTAACCAGCCAGCATCCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGA  
TGTATAGGTGCACAGCCCCCTCTGGAGCCGTGGAGGAGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGT  
TCGCTTCATCCCTCATGAGAATGGTGTCCACACCATCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCC  
CTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGGGGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGA  
AGGGGGCACCACAGGTATCCAGTCGGAATTCTTTATTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCAC  
CATCGAAGGCCCCATCCAAGGTTAAAATGGATTGCCAGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCAT  
GGCTCCTGGTAACCTACCTGATCAGCGTCAAATACGGTGGGCCCCAACACATCGTGGGCAGTCCCTTCAAGGCCAA  
GGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAGCCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAG  
GTCGTCTACAGAGACCTGCTATAGCGCCATTCCCAAGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGC  
AGGGCTCTCAAAGGCCCTTTGTGGGCCAGAAGAAGTTTCCTTCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGC  
TGCTGATCGGGGTCCATGGGCCCCACCACCCCTGCGAGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACA  
ACGTACATACGTCGTC AAGGAGAGGGGGCGATTATGTGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCA  
GCCCTTTTCATGTCACAGTGCCTTAAAACAGTTTTTCTCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGTC  
TTGTTTGTAATTCATTTTATACAAAGCCCTCCAGCCTGTTTGTGGGGCTGAAACCCCATCCCTAAAATATTGCTG  
TTGTA AAAATGCCTTCAGAAATAAGTCCTAGACTGGACTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAG  
CTTGTTTCAGGGGGCTGAGAAGATCCTGAGTACACTAGGTGCAAACCAGAACTCTTGGTGGAAACAGACCAGCCACT  
GCAGCAGACAGACCAGGAACACAATGAGACTGACATTTCAAAAAACAAAACCTGGCTAGCCTGAGCTGCTGGTTC  
ACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGATGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATT  
TGGCAAAGGAGATGACTTAAAATCCGCTTAATCTCTTCCAGTGTCCGTGTTAATGTATTGGCTATTAGATCACT  
AGCACTGCTTTACCGCTCCTCATCGCCAACACCCCATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGT  
GGCAGCCGGGCACCCTACAGAACTCAGAGGGCAGAGTGGCAGCCAGGCCACATGTCTCTCAAGTACCTGTCCC  
CTCGCTCTGGTGATTATTTCTTGAGAATCACCACACGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTT  
CAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAATTCTG CAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCC  
CTTTTAACCAACACTAGCCCTTGTTTTTAACACACGCTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAATG  
TTTAAAGTGATCTCAGAGGGGGCCATGGATTAAACGCCCTCATCCCAAGGTCCGTCCTCATGACATAACACTCCACA  
CCCGCCCCAGCCAACTTCATGGGTCACTTTTTCTGGAAAATAATGATCTGTACAGACAGGACAGAATGAAACTCC  
TGCGGGTCTTTGGCCTGAAAGTTGGGAATGGTTGGGGGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTACCA  
TTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAATCCAGAAATGAGGTGTAGGGAATTTGCCTGCCTTCCTGC  
AGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTCAGGGACGTTGCCTGAGCCCAAATGTGTAGTGTGGTCTGG  
GCAGGCAGACCTTTAGGTTTTGTGCTTAGTCCTGAGGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGC  
GAGTGTGGGGGTAAAAGCCCACCCTACAGAAAGTGGAACAGCCCGGAGCCTGATGTGAAAGGACCACGGGTGTT  
GTAAGCTGG

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**FIGURE 1193**

ATAGAGGACACGACCAAGATGCGCGGCGGTGTCTGGCTTGGTGCGGAGACCCCTTCGGGAGGTCTCCGGGCTGCTG  
AAGAGGCGCTTTCACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGAT  
GAGGAGCTGGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGGCATACAAGGTT  
AGTCGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTGGA  
ATTGCTGTAGGTGCAGCTATGGCTGGGTTGCGGCCCATTTGTGAATTTATGACCTTCAATTTCTCCATGCAAGCC  
ATTGACCAGGTTATAAACTCAGCTGCCAAGACCTACTACATGTCTGGTGGCCTTCAGCCTGTGCCTATAGTCTTC  
AGAGGGCCCAATGGTGCCCTCAGCAGGTGTAGCTGCCCAGCACTCACAGTGCTTTGCTGCCTGGTATGGGCACTGC  
CCAGGCTTAAAGGTGGTCAGTCCCTGGAATTCAGAGGATGCTAAAGGACTTATTAAATCAGCCATTCGGGATAAC  
AATCCAGTGGTGGTGCTAGAGAATGAATTGATGTATGGGGTTCCTTTTGAATTTCCCTCCGGAAGCTCAGTCAAAA  
GATTTTCTGATTCCATTGGAAAAGCCAAAATAGAAAGGCAAGGAACACATATAACTGTGGTTTTCCATTCAAGA  
CCTGTGGGCCACTGCTTAGAAGCTGCAGCAGTGCTATCTAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGT  
ACCATTAGACCAATGGACATGGAAACCATAGAAGCCAGTGTCATGAAGACAAATCATCTTGTAACCTGTGGAAGGA  
GGCTGGCCACAGTTTGGAGTAGGAGCTGAAATCTGTGCCAGGATCATGGAAGGTCCTGCGTTCAATTTCTGGAT  
GCTCCTGCTGTTCTGTGCTCACTGGTGCTGATGTCCCTATGCCTTATGCAAAGATTCTAGAGGACAACCTCTATACCT  
CAGGTCAAAGACATCATATTTGCAATAAAGAAAACATTAAATATTTTAGTTTGGACTTGAATATCAAGTCGTTGAA  
ATTTATTTGAAATACTTGCTGGCACTGCACCTGGATTTGTACTGCAAGACCTGACTATTCATAACGGAAAACGAT  
TTCTAAAGCAACAGCAGGTATTTTTGTACAGGGAAGTTTAAATGTGTTTGTGTATGGAAAACCTCTCCACTCTCCT  
CCCCTAGATGCCATGCTTCCTTTTGTCTGTTACGGTTGCCATGTTCTTTGAATAACAAATTATATAACATTTTAT  
CCTCTCTCACCACAAGGACAAAGTATGGATGTGGCAGAGTCCTCATGAAAGATGTATCCAACAAGATAACTTAT  
ATGTATAAAATTAAAGCATATAATATACATTTACTGTTAGTTTGTGTTTGATAAGGAATAAAGGAATTTCTAACAT  
G

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**FIGURE 1194**

MAAVSGLVRRPLREVSGLLKRRFHWTPAALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVSRLWK  
KYGDKRIIDTPISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSGGLQVPPIVFRGPNGA  
SAGVAAQHSQCFAAWYGHCPGLKVSPWNSEDAKGLIKSAIRDNNPVVLENELMYGVPFEFPPEAQSKDFLIPI  
GKAKIERQGTHITVSHSRPVGHCLEAAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPQFG  
VGAEICARIMEGPAFNFLDAPAVRVTGADVPMPIYAKILEDNSIPQVKDIIFAIKKTLNI

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**FIGURE 1195**

GTCAGCCGCTGTCCCCTTAGCCGCGATGCCGCTGGAGAACCTGGAGGAGGAGGGTCTGCCCAAGAACCCCGACTT  
GCGTATCGCGCAGCTGCGCTTCCTGCTCAGCCTGCCCAGCACCGCGGAGACGCTGCCGTGCGCGACGAGCTGAT  
GGCGGCCGTCCGCGATAACAACATGGCTCCTTACTATGAAGCCTTGTGCAAATCCCTCGACTGGCAGATAGACGT  
GGACCTACTCAATAAAATGAAGAAGGCAAATGAAGATGAGTTGAAGCGTTTGGATGAGGAGCTGGAAGATGCAGA  
GAAGAATCTAGGAGAGAGCGAAATTCGCGATGCAATGATGGCAAAGGCCGAGTACCTCTGCCGGATAGGTGACAA  
AGAGGGAGCTCTGACAGCCTTTCGCAAGACATATGACAAAACCTGTGGCCCTGGGTCACCGATTGGATATTGTATT  
CTATCTCCTTAGGATTGGCTTATTTTATATGGATAATGATCTCATCACGAAACACAGAAAAGGCCAAAAGCTT  
AATAGAAGAAGGAGGAGACTGGGACAGGAGAAACCGCCTAAAAGTGTATCAGGGTCTTTATTGTGTGGCTATTCTG  
TGATTTCAAACAGGCAGCTGAACTCTTCCTTGACACTGTTTCAACATTTACATCCTATGAACTCATGGATTATAA  
AACATTTGTGACTTATACTGTCTATGTCAGTATGATTGCCTTAGAAAAGACCAGATCTCAGGGAAAAGGTCATTAA  
AGGAGCAGAGATTCTTGAAGTGTTGCACAGTCTTCAGCAGTTTCGGCAGTATCTGTTTTACTCTATGAATGCCG  
TTACTCTGTTTTCTTCCAATCATTAGCGGTTGTGGAACAGGAAATGAAAAAGGACTGGCTTTTTGCCCCCTCATT  
TCGATACTATGTAAGAGAAATGAGAATTCATGCATACAGTCAGCTGCTGGAATCATATAGGTCATTAACCCTTGG  
CTATATGGCAGAAGCGTTTGGTGTTGGTGTGGAATTCATTGATCAGGAACGTCCAGGTTTATTGCTGCCGGGAG  
ACTACACTGCAAAATAGATAAAGTGAATGAAATAGTAGAAACCAACAGACCTGATAGCAAGAACTGGCAGTACCA  
AGAAACTATCAAGAAAGGAGATCTGCTACTAAACAGAGTTCAAAAACCTTCCAGAGTAATTAATATGTAAAGCCA  
TGTAACTAACAAAGGATTTGCTTTAGAGATAATTATTTGGAATTTTATAGCTTACTTCACAATGTGCCCAGGTC  
AGCTGTATAAAATAAATACTGCATTGTTGTTTC

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**FIGURE 1196**

MPLNLEEEGLPKNPDLRIAQLRFLLSLPEHRGDAAVRDELMAAVRDNNMAPYYEALCKSLDWQIDVDLLNKMKK  
ANEDELKRLDEELEDKAEKNLGESEIRDAMMAKAEYLCRIGDKEGALTAFRKYDKTVALGHRLDIVFYLLRIGLF  
YMDNDLITRNTEKAKSLIEEGGDWDRNRNLKVYQGLYCVAIRDFKQAAELFLDTVSTFTSYELMDYKTFVTTYTVY  
VSMIALERPDLREKVIKGAEILEVLHSLPAVRQYLFSLYECRYSVFFQSLAVVEQEMKKDWLFAPHYRYVREMR  
IHAYSQLESYRSLTLGYMAEAFGVGVFEFIDQELSRFIAAGRLHCKIDKVNEIVETNRPD SKNWQYQETIKKGDL  
LLNRVQKLSRVINM



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**FIGURE 1197**

GAGAAGCCATGAGCAGCAGTCTCTCGCAACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACCGGAACCAGCGC  
AAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGACCCCCAGAAGGACAAGTGC  
TTCTCGGGCACCGTCAGACTTAAGTCCACTCCCCGCCCTAAGTTGTGTGTGTGTCTCCTGGGGGACCAGCAGCAC  
TGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAAAAAGAATAAAAAA  
CTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATTCCACGAATC  
CTCGGCCCAGGTCTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTGGCCAAAGTG  
GGTGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGTCACGTGAAG  
ATGACAGCCGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTGATTGCTCAAGAAAACTGG  
CAGAATGTCCGGGCCCTTATATATCGAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACATTTGAATAA  
ATTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAACAAAAAAAAA

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**FIGURE 1198**

GCTCAAGTGGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACA  
AGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTAGAGTGGGGAAAAAGAAGAAGAAAACAAAGGGACCAG  
ATGCTGCCAGCAAACCTGCCACTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGAAGTTAGAGAGAATTA  
AAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGG  
AGGAAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCGATGTGAGTAGGAACCTTGGAAGAGATCATTGATGACA  
ATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACGTCAGCATTCCTTCATTTGTAGACAAGGATCTGC  
TGGAACCTGGCTGCTCGGTCTGCTCAACCACAAGGTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATC  
CCCTGGTCACAGTGATGAAGGTAGAAAAGGCCCCCAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAA  
TTCAGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTC  
CTAAGGGGGTCATTCTCTATGGTCCACCTGGCACAGGTAAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAAAACCT  
CAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTGAGAAGTACCTAGGTGATGGGCCCAAACTCGTACGGG  
AATTGTTCCGAGTTGCTGAAGAACATGCACCGTCCATCGTGTATTATTGATGAAATTGACGCCATTGGGACAAAAA  
GATAAGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACATGTTGGAAGTCTGAACCAGTTGGATGGAT  
TTGATTCTAGGGGAGATGTGAAAGTTATCATGGCCACAAACCGAATAGAAACTTTGGATCCAGCACTTATCAGAC  
CAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTGCCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTACACA  
CAAGCAGGATGACGCTGGCTGATGATGTAACCCTGGACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTG  
ACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACT  
TCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTATCTCTAATGAACCA  
TGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCCCAGAGG  
AATCCCTGTTCCCACTGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATTGG  
GTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGTGCTCTTTCACAA

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**FIGURE 1199**

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAACCATCAAACCTATTCCACAGACGCCACATGAGC  
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTCTGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT  
CAAAGACTGGATTCTGGCCACAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTCTGAATCA  
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT  
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAGGAGCCACCACAGAACGAGCTCGGCACCC  
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGCTCCATGATCCATTAAAC  
AATCACCCCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGGAGCCATCATTAGGTCACTGGAAAATGATATC  
TTCCTGGAGGTTGATACTGGCTTACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA  
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG  
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTTCATCATTCTCTCTACACAACAAACCCT  
GAACTCTTAGAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTTCAGCCGGCTTTCTCTACTTGTTCAT  
TCCATGATCACAGAAAACAGCTCCATTAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA  
TGTTTCTTCGGCATTACTCAAAGTGACGCTACACTCAGCCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA  
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG  
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTTCTGTTGGAAC  
CCTCAGGAGTGGAAGAAATTGTTCAAACCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAACCTGGAGCTCTAC  
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATAC  
TTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA  
ATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAT  
GACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC  
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG  
GGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1200**

MPSKEKQGTLTLQNHQNYSHRRHMSPHLSDLKEAGSAGIRILWFQREKLFQRLDSGPQKKVPAYWNQEVKDFSES  
CIHGEEP IRAIPADSSKDVHELIVVVGSWDSTLPEEYDLKRSHRTSSAPIYECIAKDHGWGDPEVNWLHDPLN  
NHPEIHSASQLMGLGAIIRSLENDIFLEVDTGFTILRAEGLREEQPPGHGGTCHPTSNHRAMLKRARWMTYVEEV  
SRVRISTSRNLARSAFIILSYTTNPELLEAALGTGASNPFPSRLSLLVSHSMITENS SIKTLFRSTKELVIGPKD  
ARRDFQVVSRGSADFWRKCLASSDGSICLLSIGKPELIRLIQLIK

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**FIGURE 1201**

ATGATCTTTAATTTTGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATTTCAGGAATAC  
ATACGACAACTGCCTCCGAATTTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAACCCAGGAGTTTCCAAGCT  
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG  
CTCAAATCAGCTGTGCTTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG  
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTT  
TCTGTTGGAAACCTCAGGAGTGGAAGAAATTGTTCAAACCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAAC  
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC  
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAA  
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG  
GATGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA  
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC  
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1202**

GTGGCGTGTGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG  
ATCACCAGGTGTTTGGCTTGGTCGGTTCTTATTTCTCGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG  
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCCTACAACCTGCGGGCGGAAG  
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTCGCGGAGGAG  
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGAGTAAGAAGTTTGCCTCTTTCAACGCCTACGAGAACCAC  
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT  
GAAAAGAACTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC  
ATCAAGGCCCAGCCGTCCATGTCTCCCAAGAAGGCGCCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC  
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG  
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG  
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA  
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT  
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT  
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGCAACGAG  
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA  
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG  
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG  
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACTACAAACAGCGATTTGGCTTGTCAAGAGCTGTG  
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA  
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAATGGATGCTGAAGACAGGA  
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA  
TCATCTCCTGCCAAGTTTCCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCTTTTGCTGC  
TACTTCATTCGTTCTGACCTAATAATAAAAGTTAGAACCAT

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**FIGURE 1203**

GCAGACGCCATTATCCTCTGTTTCTCTGCTGCACCGACCTCGACGCCTTGCCTGTGGCCCACTTGTTCACTGACT  
ATAGGCTACTGCAGCACTGGGGTGTCTAGTTGTTGGTCCCACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATA  
TAATAACTGATTGGTGTGCCCATTTAATAAAAGAATATGTAACTGAACAGCCGGAAGAAACCTTCCCGAACACT  
GAAACCAATGGTGAATTTGGTAAACACCCTGCAGAAGATATGGAAGAGTAACAAGCATTAAAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGACCAAGAATGCTGGGGCAGTGATTGGAAAAGGAGGCAAG  
AATATCAAGGCTCTCCGTACAGACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCGAGCACATATTG  
AGTATCAGTGCTGGTATTGACACAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGGAAGAGTACCAACAC  
TATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTC  
GAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCTGTCCTTAT  
TCCACTGACAAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCCTTGATCT  
TATATATGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTTATGATGAAACCTATGATTATGG  
TGGTTTTACAATTATGTTTGATGACCGCTGTGGACGCCCAGTGGGATTTCCTATGCGGGGAAGAGGTGGTTTTGA  
CAGAATGCCTCCTGGTCAGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCCCTCGTCA  
AGGACCACCTCCACCTCCTCCAGGACAAGGTGGTGAGGGTGGTAGCAGAGCTCGGAATCTTCCTCTTCCTCCTCC  
ACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGGAGACCTGGAGACTGTTACCATGGCATGGT  
TGGTTTCAGTGCTGATGAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGGCTTATGA  
ACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGGGGTCTGTGGCTCATATGGTAATCTTGGTGGACTTAT  
TATTACTACACAAGTAACGATTCCCAAAGATTTGGCTGGATCTATTATTG

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**FIGURE 1204**

ATGAATAAGGAGAATCACTCCTTGATAGCTGAGTTCATCCTCACAGGATTTACATATCATCCAAAGCTGAAGACT  
GTTCTGTTTGTGGTGTTCTTTGCCATCTATCTGATCACCATGGTGGGGAACATTGGTTTGGTGGCATTGATTTAT  
ATAGAGCAACGTCTTCACACACCAATGTACATATTTTTAGGCAACCTAGTTCTGATGGATTCTGCTGTTCTCTCT  
GCTATTACTCCCAAGATGTTAGAGAACTTCTTTTCTGAGGACAAAAGGATTACCCTGTATGAATGTATGGCACAA  
TTTTATTTTCTCTGTCTTGCTGAAACTACAGACTGCTTTCTTCTGGCGGCAATGGCCTATGACTGCTATGTGGCC  
ATATGCAACCCACTGCAGTACCACACCATGATGTCCAAGACACTCTGCATTGAGATGACTGCAGGAGCCTACCTA  
GCTGGCAACCTGCATCCCATGATTGAAAACCTTTTGCCAGAGTAGCAGCCAACTTGAGGTTGCCCGATTCTCT  
GACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACTATTTATGCAGGAAATGCTCTATGTACAGTGAAG  
TGTGATGAGAAAAGTGAAAGTGTTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCC  
AGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTTGACCAGAAATTAACAAAAAGTGAT  
CGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGAAGTCTATCCATCTTATAACACACTCATTCTTCAG  
ACACATCACAATGCACATGATCAGATTACAGCTTTCTTTACCTTAAGGATGTCTTCAACCACCACAAGCCCTTTC  
CAAATTCCTACGTAGATAAAATTTGGCTTTTCTAG



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**FIGURE 1205**

ATGATCAGGTGTGATAAGTGCTGTAATGAAGGCAATTACAAGGAGAGGATATTTGAAATCATTGCTGTGGAGGGT  
GAGAGTGC GAACAAGGAAGTTGTGGTAGCATTGCTAGACAGTTTTGAGAGCCCAGCTCCAGAGCTTAAGGTTATT  
GCTGAATTAAGCCACGCCTCATTGCTACGATTTGAGAGTACCCTGGTAATAGCTGAGCATGCAAATGATTCCCTA  
GCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAAGTGTCTGCTTAGTAGCTGGAACC  
AAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAGCATGATGTG  
TACAAAGGCCTACTTCCAGGTGAGGTTTTCCAGTAG

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**FIGURE 1206**

TCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGGTCGAGCTGTGCAGTTTTAGCGGGTACAAG  
ATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGGTTTTCCAGTTTCTTAATGCGAAATGCGAG  
TCGGCTTTCCTTTCCAAGAGGAATCCTCGGCAGATAAACTGGACTGTCTCTACAGAAGGAAGCACAAAAAGGGA  
CAGTCGGAAGAAATTCAAAAGAAAAGAACCCGCCGAGCAGTCAAATTCCAGAGGGCCATTACTGGTGCATCTCTT  
GCTGATATAATGGCCAAGAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCT  
AAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGGCAGCA  
CCTAAGCAAAAAGATTGTGAAGCCTGTGAAAGTTTCAGCTCCCCGAGTTGGTGGAACGCTTAAACTGGCAGATTA  
GATTTTTAAATAAAGATTGGATTATAACTCT

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**FIGURE 1207**

MKVELCSFSGYKIYPGHGRRYARTDGKVFQFLNAKCESAFLSKRNPRQINWTVLYRRKHKKGQSEEIQKKRTRRÄ  
VKFQRAITGASLADIMAKRNQKPEVRKAQREQAIRAAKEAKKAKQASKKTAMAAAKAPTKAAPKQKIVKPKVSA  
PRVGGKR

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**FIGURE 1208**

GCTCCTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCCGCCATGTCGCTAGTGATCCCTGAAAAGTTCCAGC  
ATATTTTGCAGTACTCAACACCAACATCGATGGGCAGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTG  
TGGGCCGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACACTGACCTCACCAAGAGGGCGGGAGAACTCACTG  
ATGATGAGGTGGAACGTGTGATCACCGTTATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCTTGAACA  
GACAGAAGGATGTAAAGGATGGAAAATATAGCCAGGTCCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGACC  
TGGAGCGACTGAAGAAGATTCGGGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACA  
CCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTCTGTAA  
TAAATAGTTTATATACC

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**FIGURE 1209**

ACCGCGGGGCCTGGGTCCCAGCCGGCAGCAGAGAGCTGGTCGCCCACCACCCCAAGCTACTGCTGCCGCCTGGCT  
ATTTCCCGGGGGGGCGGTACGTGGTGGTGGCTGAGAGCCCCCTGCCGCCTGGCGAGTGGGAGCTGTGCCGCGCAG  
TCCCGGGGCCCTGCTTACGAGGAGGAGGGCACTCCCCTGCGCTACCAGCGTCTGGTGCCCTCTCGCAGCCGCATCG  
TGCGGACGCCCTCCCTGAAGGACAGCCCGGCAGGCCGGGGGCTCAGCAAGGCCGCCGTGTCCGAGGAGCTCAAGT  
GGTGGCACGAGCGTGCACGCCTCCGGAGCACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCGGGGTCAGGA  
GCCTGCCCCCTTGGGAGAGAGGGCTTCGGGCGAGCCCTGGGACCCCGGGCACAGGTGCCCCACAGTGTGTGTGCTGC  
GGAGATCGCCTGACGGGGCCCCCTGTGCAAGTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTAACCTCT  
GCGCCCCACGCTGGAAAAAACTGTTTCATAGAGGGGCTGGGCTGAGACCCCCCCCCACCCCTGAGTGCCTCTTTTCAG  
CTTCCCCATCCCCATCGCAGGCCGATGACCTGGAGCTGAGACCTTTTTATTATTTTTTTTTTACACGACTTTTTTC  
AGAAGCCCTGACCTAAGGATTTATATATGTGGATTGTCCTCAATACCCCTGTGATATGATTATGTTTTATCCCCC  
AGAGTTTGGCCTACTGGACTTAAGGCCTTGCCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGC  
AGGGGACGAGTGAAGCAGAGTGGGCCACCTTGGGAGTTCTCCAACACTCTGTGCTCTGGTTCTAAGAAATTCCCT  
GGGGAACCTGCCCCCTGGCCCTCCTGTCCCACTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCT  
CCCCCATTTCCCAGGTCTCTGGGTACCCACAGCTGGGCTGGGGGAGAATCTCTTCCCCCTTTCTAATGTGCTCTG  
TGATGCACACACCAAGTGGTAGGTCAAAGGTCAGTATATCCCGGTGGTGTATTGTCTTGCTAGACCCTGCTATTT  
TCCTGACCCCCCTAAATCCTCTTTAGGGACCCAGTCACTATACCCTGTCTATGCCCTGTGGGCTCCAGACCCCTG  
AGCTTTGAGTCAGTGGCATCACGGTTTGTAGCCTCAGGGGTCCGGCTGGGGGCTGATCCATGCTTGTGGTTAGT  
GGACAGCAGCCACCCTTTGACAGCTACCTCTGGGCATCTCAAGGGCTTGACGCCCCACTGCTCCTTCTAACATTT  
TGTTTGTTGTTTTTGGATGGAGTCTCGCTCTGTCGCCAGGCTGGAATGCAGTAGCAAGATTTGGGCTCACTG  
CAACCCCGTCTCCCGGGTTCAAGCGAATCTCCTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCA  
CCATGCCTGCTAATTTTTTATTTTTTAGTAGAGATGGGGTTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGA  
CCTCAAGTGATCCACCTGCCTTGGCCTTTCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCT  
AACGTTTTTTTCATCATAGTCCCAAAAACCAATACTTTACAAGTGGTTTTTGAAAGGCACCACTTTTGTGGCATGT  
TCTGGTTGGGAGAGGGAGTCACAGTTCCTACTCCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTA  
TACAAACATGGACATACTCACTCCCAAGGGCTGATGAGATGCTGAATTTTCTTTGGGGGCATTATTAATTGTCC  
CAGCTGCAGCGACTGGAGCAAGTCTGGAAGCTGCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTCTCATCCTA  
GGGCCTTCTTTGCTTCCAGGTGAGGGGACCTGCTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGG  
AGAGCTGAGTTCTGACTTCACCTGTGCAGAACTCTCTGCCCCATGTTACCTGGACTGGAACAGACTGTGAATAT  
AGCAGAAGGTTCCAAGAACTCTGGTGTCTGACCTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTA  
GCCGATTGCACAAGGGTGCCAAGGGAAGACCCAGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCT  
GAAGGGATGCACCTGGCAATTTCTCTCACTGTGCTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGC  
CCCCCATGCGTGAATACCCTGCTTGGATGCTGTGCTTTTTCCGGTTTGTCTCTAAGCCCCCTTTCTCCAGGGCATGT  
TGGTTTTCCCTGGCCTCTCAGTGTCTTAAGTGGAGCCCAGAGTGCCTTGTACTGAGCCAGGAGACGGCTGAGCACT  
GGCCCTCCACACCTAAGCGTCCCTTACATTAACCTATTGGTCTTGTATAACACCTGGTGCCATTGCCAAGTGGCT  
GTGTCTCAGCTACAGAGCTGGAATTGTGTGGGGTTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTGTGATT  
GGCTG

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**FIGURE 1210**

MFWLGEGVTVPTPPTSYASALRRWLF IQTWYSLPRADEMLNFLWGHSLIVPAAATGASLEAACAKTTQLSLGSH  
PRAFFASRSGDLLQ

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**FIGURE 1211**

ATGAAACTCTTCTACGAATGTGGGAAATGCAAAAAGGAATTGAAGGAAGGGAAAAAACTGAAGCCTGGAAAACAT  
ATTAATCCCAGTGCTTTTACGCCCCGGAACAAAGAGACTAAGCCAGACTATGGGGGAAAAGGGAGATAAGAAGGAT  
CCTGGAACTTTAAAGAGGGGAAAAGAGTGAGATTAGAAATCGCCAGGACTGGACTTTAAGGGACGTCCTGTGTGAG  
CACAAGGGACTGGCACACACAGACACACGAGACCGAGGAGAACTGCAGACAAATGGAGATACAAAGACTTAGAA  
GGACAGCTCCTTTACCTCATCCTACTTGTCCAGAAGTGTGTGGATCAGAAACCCACCCCATGCCACTATTAGA  
GGCAGCCACGGAGGACGGAAAGTGCCCTTTGGTTTCTCCGGACAGCAGTAGGCCAGCTCGGTTTCTGAGGCACACT  
GGGAGGTCTCGCGGAATTGAGAGATCCACTCTGGAGGAACCAAACCTTCAGCCTCTCCAGAGAAGGAGGAGTGTG  
CCCGTGTGAGACTAGCTCGCCCAACAGAGCCGCCAGCCCGCTCGGACATCAATGGGGCCGCCGTGAGACCTGAG  
CAAAGACCAGCAGCCAGGGGGCTCTCCGCGTGAGATGATCAGAGATGAGGGGTCTCAGCTCGGTCAAGAATGTTG  
CGTTTCCCTTCGGGGTCCAGCTCTCCCAACATCCTTGCCAGCTTTGCAGGGAAGAACAGAGTATGGGTCACTCA  
GCCCCCTCATGCCTCGGAAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCG  
GAGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGAGAAGGATCACCAGC  
GAGGGCCAGATCCTGGAGCAGCCCTTGACCCTAGCCTCATCCCTAAGCTGATGAGCTTCCTGAAGCTGGAGAAG  
GGCAAGTTTGGCATGGTGCTGCTGAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAA  
GCCATGTACGAGGTCAATCGACCAAGGCCCATCCGTAGGATCGAGAAGATCAGGCAGAAAGGGCTTTGTCCAGAAA  
TGTAAGGCCTCTGGTGAGAGGGCCAGGTGGTGGCGGAGGGGAATGACGGTGAGGGGGGAGCAGGAAGGCCAAGC  
CTGGGCAGCGAGAAGAAGAAAGAGGACCCAAGGAGAGCACAAGTCCCACCAACCAGAGAGAGTCGGGTGAAGGTC  
CTGAGAAAACCTGGCCGCCACTGCACCAGCTTTGCCCAACCTCCCTCAACCCCCAGAGCCACCACCCTTCCTCCT  
GCCCCAGCCACAACAGTGACTCGGTCCACGTCCCGGGCGGTAACAGTTGCTGCAAGACCTATGACCACCACTGCC  
TTTCCCACCACGCAGAGGCCCTGGACCCCTCACCTCCACAGGCCCCCTACAACCACTGAGGTGATCACTGCC  
AGGAGACCCCTCAGTTTCAGAGAATCTTTACCCTCCATCCCGGAAGGATCAGCACAGGGGAGAGGCCACAGACAACC  
AGGAGGCCCAGCAAGGCCACCAGCTTGAGAGCTTCACAAATGCCCTCCCACCACCATCTCAGAACCAGCACA  
AGGGCTGCTGGCCCAGGCCGTTTCCGGGACAACCGCATGGACAGGCGGGAACATGGCCACCAGACCCAAATGTG  
GTGCCAGGTCTCCCAAGCCAGCAAAGGAGAAACCTCCCAAAAAGAAGGCCAGGACAAAATTCTTAGTAATGAG  
TATGAGGAGAAGTATGACCTCAGCCGGCCTACTGCCTCTCAGCTGGAGGACGAGCTGCAGAGTCCCAAGAAGTCA  
GTGGCCGACCTGCTGGGGTCCCTTTGAAGGCAAACGAAGACTCCTTCTGATCACTGCTCCCAAGGCTGAGAACAAT  
ATGTATGTGCAACAACGTGATGAATATCTGGAAGTTTCTGCAAGATGGCTACCAGGAAAATCTCTGTGATCACC  
ATCTTCGGCCCTGTCAACAACAGCACCATGAAAATCGACCACTTTAGCTAGATAATGAGAAGCCCATGCGAGTG  
GTGGATGATGAAGACTTGGTAGACCAGCGTCTCATCAGCGAGCTGAGGAAAAGAGTACGGAATGACCTACAATGAC  
TTCTTCATGGTGCTAACAGATGTGGATCTGAGAGTCAAGCAATACTATGAGGTACCAATAACAATGAAGTCTGTG  
TTTGATCTGATCGATACTTTCCAGTCCCGAATCAAAGATATGGAGAAGCAGAAGAAGGAGGGCATTGTTTGCAA  
GAGGACAAAAAGCAGTCCCTGGGAACTTCTATCCAGGTTCCGGTGGAGGAGGAGTTGCTGGTGATCTCTGCT  
CCTAACGATGAAGACTGGGCCTATTACAGCAGCTCTCTGCCCTCAGTGGTCAGGCGTGCAATTTTGGTCTGCGC  
CACATAACCATTCTGAAGCTTTTAGGCGTTGGAGAGGAAGTTGGGGGAGTGTTAGAACTGTTCCCAATTAATGGG  
AGCTCTGTTGTTGAGCGAGAAGACGTACCAGCCATTGGGTGAAAGACATTCGTAATTTTTCAAGTGAGCCCG  
GAGTACTTCTCCATGCTTCTAGTCGGAAAAGACGGAAATGTCAAATCCTGGTATCCTTCCCAATGTGGTCCATG  
GTGATTGTGTACGATTTAATTGATTCGATGCAACTTCGGAGACAGGAAATGGCGATTCAGCAGTCACTGGGGATG  
CGCTGCCCAGAAGATGAGTATGCAGGCTATGTTTACCATAGTTACCACCAAGGATACCAGGATGTTTACCAGGAT  
GACTACCGTCATCATGAGAGTTATCACCATGGATACCTTACTGA

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**FIGURE 1212**

MTWRMGPRFTMLLAMWLVCGSEPHPHATIRGSHGGRKVPLVSPDSSRPARFLRHTGRSRGIERSTLEEPNLQPLQ  
RRRSVPVLRRLARPEPPARSDINGAAVRPEQRPAARGSPREMIRDEGSSARSRLRFPSSSSPNILASFAGKNR  
VWVISAPHASEGYRLMMSLLKDDVYCELAERHIQQIVLFHQAGEEGGKVRITSEGQILEQPLDPSLIPKLMSF  
LKLEKGKFGMVLLKKTQVEERYPPVRLAMYEVIDQGPRIKIRQKGFVQCKASGVEGQVVAEGNDGGGG  
AGRPSLGSEKKKEDPRRAQVPPTRESRVKVLRLAATAPALQPPSTPRATTLPPAPATTVTRSTSRAVTVAARP  
MTTAFPTTQRPWTPSPSHRPPTTEVITARRPSVSENLYPSPSRKDQHRERPQTTRRPSKATSLESFTNAPPTTI  
SEPSTRAAGPGRFRDNRMDRREHGHRDPNVVPGPPKPAKEKPPKKKAQDKILSNEYEEKYDLRPTASQLEDELQ  
VGNVPLKKAKESKKHEKLEKPEKEKKKKMKNNENADKLLKSEKQMKKSEKKSQEKESKKKKGGKTEQDGYQKPT  
NKHFTQSPKKSADLLGSFEGKRLLLLITAPKAENNMVYQORDEYLESFCKMATRKISVITIFGPVNNSTMKIDH  
FQLDNEKPMRVVDDDLVDQRLISELRKEYGMTYNDFFMVLTDVLDLRVKQYYEVPITMKSVFDLIDTFQSRIKDM  
EKQKKEGIVCKEDKKQSLENFLSRFRWRRRLVISAPNDEDWAYSQQLSALSGQACNFGLRHITILKLLGVGEEV  
GGVLELFPINGSSVVEREDVPAHLVKDIRNYFQVSPEYFSMLLVGKDGNVKSWYPSPMWSMVIVYDLIDSMQLRR  
QEMAIQQSLGMRCPEDEYAGYGYHSYHQGYQDGYQDDYRHHSYHHGYPY



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**FIGURE 1213**

TTCTGGAAGGGAGAATGGCGGCGCCCGGGCTGCGGCTGGGAGCGGGAAGACTCTTTGAAATGCCTGCGGTGCTA  
GAGCGACTGAGCCGCTATAATAGCACGTCCCAAGCTTTTGCTGAGGTGCTGCGGCTGCCGAAGCAGCAGCTGAGG  
AAGCTGCTGTACCCGCTGCAGGAAGTAGAGCGGTTCCCTCGCCCCCTACGGGAGGCAAGACCTTCACCTGCGTATC  
TTTGACCCAAGCCCGGAGGACATAGCCAGGGCGGACAACATCTTCACGGCCACTGAACGGAACCGCATCGACTAC  
GTCAGCTCCGCCGTCCGTATCGACCACGCCCCGGACCTTCCGCGGCCAGAGGTGTGTTTTATAGGCAGAAGCAAT  
GTTGGAAAATCATCTCTAATCAAGGCTTTATTTTCACTGGCCCCTGAGGTTGAAGTCAGAGTCTCCAAAAACCA  
GGACACACAAAGAAAATGAATTTTTTCAAAGTTGGAAAACATTTTACAGTGGTGGACATGCCAGGTTATGGCTTT  
AGAGCACCTGAAGATTTTGTGACATGGTAGAGACCTATCTAAAAGAACGAAGGAAGTTGAAGAGAACATTTTAA  
TTAGTGGATAGCGTTGTTGGAATTCAAAAACAGACAATATTGCCATAGAAATGTGTGAAGAATTTGCATTACCT  
TATGTGATTGTATTAACAAAAATTGACAAATCTTCCAAGGGACATCTTTTAAAACAAGTGCTTCAGATCCAGAAA  
TTTGTTAACATGAAAACCAAGGATGTTTTCCCTCAGTTGTTTCCCTGTAAGTGCTGTGACCTTTTCTGGAATCCAC  
CTGTTGAGATGCTTTATAGCCAGTGTAAACAGGAAGTCTTGACTAATGGTTCCCGGTTTAGCTGAAGATTCAAAAA  
AAAAAAAAAAGCTTTATGCTAACTGGAGTTAAATACCTAGAAGAATTTCAACATTGTTTTAAATGTTGTGCATC  
TGTAACCTTCAGGAGGATCACTTGAGCTTTTAAACCTGTGCCTTCTCGAAACAAGAATTTGTGCCTGAGGTGAAAA  
AAGTTTGTAAGTTATTGAATTATGGTGTTTATTAGAACAGCTACTAGCTGATTCCCCTATTTTAACAAACTGACA  
AGAGCACATCCATAAAATGAAAACCTGTTACAACCTATGTACAGAAGGGTTTGACGTTTTATTGGGCTTTTGTCTT  
TTAAAGAATATGTCTACTATGGGTATTTTTTTTTTAAATGTTAAAATGGGCTAGGTAAAAGGGGGCTGCTTTTCT  
GTTAAGCATCGATAGGTAAGTTGATGGATAAAAGTTACTATGTAAGCCTATTTTTTTGAGTCCTTATTTGAATAT  
TGAAAACATTCTTGATAAAATGTGTTAGTCCATGTTGGAAACAACCGAAAGAACAGAATTCAAGTTCTAGTTCTG  
ATGTTTATTATATATGTTGGATCTTGGGCACTTACTTGATTTCTCGGAAATTCATTGTTACTGTAAACGTGAA  
AGCTATTAAGATTCAAATGAATGGTTTTACAGCAGGTAACATGTGAGAAGACAGCTACATATTTGTAAAGCCAAA  
CCAACAAAGAAATATAGCAAAATTCACAGGTAGATTTATTACAAGAAATGTCCTTTCATGGGGGAAGTAACATTT  
TCACTAGTGAAAAAGCAAAAAACAAAAATAGCTTTAAGTGAGAAAACATAATTT

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**FIGURE 1214**

[illegible]

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**FIGURE 1215**

MLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQSV  
EHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEOMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSVM  
STVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEEP  
ILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEEESESEAEEGD

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**FIGURE 1216A**

GGCACGAGGGATCGGCGGAGCTCCACCTCCGCTTACAGCTCGCTGCCGCCGTCTGCCCCGCGCCCCAGGAGA  
CCTGGACCAGACCACGATCTGGAAACGCTGGCTCGCGCTCGCGCTCGCGCTGGTGGCGGTGCGCTGGGTCCGCGC  
CGAGGAAGAGCTAAGGAGCAAAATCCAAGATCTGTGCCAATGTGTTTTGTGGAGCCGGCCGGGAATGTGCAGTCAC  
AGAGAAAGGGGAACCCACCTGTCTCTGCATTGAGCAATGCAAACCTCACAAGAGGCCTGTGTGTGGCAGTAATGG  
CAAGACCTACCTCAACCACTGTGAACTGCATCGAGATGCCTGCCTCACTGGATCCAAAATCCAGGTTGATTACGA  
TGGACACTGCAAAGAGAAGAAATCCGTAAGTCCATCTGCCAGCCCAGTTGTTTGCTATCAGTCCAACCGTGATGA  
GCTCCGACGTGCGATCATCCAGTGGCTGGAAGCTGAGATCATTCCAGATGGCTGGTTCTCTAAAGGCAGCAACTA  
CAGTGAAATCCTAGACAAGTATTTTAAGAACTTTGATAATGGTGATTCTCGCCTGGACTCCAGTGAATTCCTGAA  
GTTTTGTGGAACAGAATGAAACTGCCATCAATATTACAACGTATCCAGACCAGGAGAACAACAAGTTGCTTAGGGG  
ACTCTGTGTTGATGCTCTCATTGAACTGTCTGATGAAATGCTGATTGGAACTCAGCTTCCAAGAGTTTCTCAA  
GTGCCTCAACCCATCTTTCAACCCCTCTGAGAAGAAGTGTGCCCTGGAGGATGAAACGTATGCAGATGGAGCTGA  
GACCGAGGTGGACTGTAACCGCTGTGTCTGTGCCTGTGGAAATTGGGTCTGTACAGCCATGACCTGTGACGGAAA  
GAATCAGAAGGGGGCCAGACCCAGACAGAGGAGGAGATGACCAGATATGTCCAGGAGCTCCAAAAGCATCAGGA  
AACAGCTGAAAAGACCAAGAGAGTGAGCACCAAAGAGATCTAATGAGGAGGCACAGACCAGTGTCTGGATCCAG  
CATCTTCTCCACTTCAGCGCTGAGTTCAGTATACACAAGTGTCTGTACAGTGCCTCAATCACCAGTATTTGCTT  
ATATAGCAATGAGTTTTATTTTGTGTTATTTGTTTTGCAATAAAGGATATGAAGGTGGCTGGCTAGGAAGGGAAGG  
GCCACAGCCTTCATTTCTAGGAGTGCTTTAAGAGAACTGTAAATGGTGCTCTGGGGCTGGAGGCTAGTAAGGAA  
ACTGCATCACGATTGAAAGAGGAACAGACCCAAATCTGAACCTCTTTTGAGTTTACTGCATCTGTCAGCAGGCTG  
CAGGGAGTGCACACGATGCCAGAGAGAACTTAGCAGGGTGTCCCCGGAGGAGAGGTTTGGGAAGCTCCACGGAGA  
GGAACGCTCTCTGCTTCCAGCCTCTTTCCATTGCCGTGAGCATGACAGACCTCCAGCATCCACGCATCTCTTGGT  
CCCAATAACTGCCTCTAGATACATAGCCATACTGCTAGTTAACCAGTGTCCCTCAGACTTGAGTGGAGTTTCTG  
GGAGGGTACACCCAAATGATGCAGATACTTGTATACTTTAGCCCCCTTAGCGACCTAACCCAAATTTTAAAAATAC  
TTTTTACCAAAGGTGCTATTTCTCTGTAAAACACTTTTTTTTTTGGCAAGTTGACTTTATTCTTCAATTATTATCA  
TTATATTATTGTTTTTTAATATTTTATTTTCTTGACTAGGTATTAAGCTTTTGTAATTATTTTTCAGTAGTCCCA  
CCACTTCATAGGTGGAAGGAGTTTGGGGTCTTCTCGGTGCAGGGGCTGAAATAACCCAGATGCCCCACCCTGC  
CACATACTAGATGCAGCCCATAGTTGGCCCCCTAGCTTCCAGCAGTCCACTATCTGCCAGAGGAGCAAGGGTGC  
CTTAGACCGAAGCCAGGGGAAGAAGCATCTTCATAAAAACTTTCAAGATCCAAACATTAATTTGTTTTTATTTA  
TTCTGAGAAGTTGAGGCATAATCAGTATTCCCAAGGATGGCGACAAGGGCAGCCAAGCAGGGCTTAGGATATCCCA  
GCCTACCAATATGCTCATTTCGACTAAGTAGGAGGGTGAGTTGGCCCTGTCTCTTCTTTTTCTGGACCTCAGTTT  
CCTCAGTGAGCTGGTAAGAAATGCACTAACCTTTTGATTTGATAAGTTATAAATCTGTGGTTCTGATCATTGGTC  
CAGAGGGGAGATAGGTTTCTGTGATTTTCTCTCTCTATAGAATAAATGAAATCTTGTTACTAGAACAAAGAA  
ATGTCAGATGGCCAAAAACAAGATGACCAGATTTGATCTCAGCCTGATGACCCTACAGGTCGTGCTATGATATGG  
AGTCCTCATGGGTAAAGCAGGAAGAGAGTGGGAAAGAGAACCACCCCACTCTGTCTTCATATTTGCATTTTCATGT  
TTAACCTCCGGCTGGAAATAGAAAGCATTCCTTAGAGATGAGGATAAAAGAAAGTTTCAAGATTCAACAGGGGGA  
AGAAAATGGAGATTTAATCCTAAACTGTGACTTGGGGAGGTGAGTCATTTACAGTTAGTCCTGTGTCTTTTCGAC  
TTCTGTGATTATTAACCCCACTCACTACCTGTTTTAGATGCATTTGGAATACCAAAGATTAAATCCTTGACATA  
AGATCTCATTTCAGAAAGCAGATTAAAGACCATCAGAAGGAAATTATTTAGGTTGTAATGCACAGGCAACTGTG  
AGAACTGTTGTGCCAAAAATAGAATTCCTTCTAGTTTTTCTTGTTCTCATTGAAAGGAGAAAATCCACTTTG  
TTTAGCATTTCAAGCTTTTATGTATCCATCCATCTAAAACTCTTCAAACCTCACTTGTTTCACTCTGAAATGCA  
GCTCCCTGTCCAAGTGCTTGGAGAACTCACAGCAGCAGCCTTAATCAAAGGTTTTACCAGCCCTTGGACACTA  
TGGGAGGAGGGCAAGAGTACACCAATTTGTTAAAGCAAGAAACCACAGTGTCTCTTCACTAGTCATTTAGAACA  
TGTTTATCATCCAAGACTACTCTACCTTGCAACATTGAACTCCCAAGAGCAAAATCCACATTCTTCTTGAGTTCTG  
CAGCTTCTGTGTAAATAGGGCAGCTGTGCTCTATGCCGTAGAATCACATGATCTGAGGACCATTTCATGGAAGCTG  
CTAAATAGCCTAGTCTGGGGAGTCTTCCATAAAGTTTTGCATGGAGCAAAACAAACAGGATTAACTAGGTTTGGT  
TCCTTCAGCCCTCTAAAGCATAGGGCTTAGCCTGCAGGCTTCCTTGGGGCTTTCTCTGTGTGTGTAGTTTTGTAA  
ACACTATAGCATCTGTTAAGATCCAGTGTCCATGGAAACATTCCCACATGCCGTGACTCTGGACTATATCAGTTT  
TTGGAAGCAGGGTTTCTCTGCCTGCTAACAAGCCACGTGGACCAGTCTGAATGTCTTTCCTTTACACCTATGT  
TTTTAAGTAGTCAAACTTCAAGAAACAATCTAACAAGTTTCTGTTGCATATGTGTTTGTGAACCTGTATTTGTA

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**FIGURE 1216B**

TTTAGTAGGCTTCTATATTGCATTAACTTGTTTTGTAACTCCTGATTCTTCCTTTTCGGATACTATTGATGAA  
TAAAGAAATTAAAGTGAIAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1217**

MWKRWLALALVAVAVRAEEEELRSSKICANVFCGAGRECAVTEKGEPTCLCIEQCKPHKRPVCGSNGKTYLN  
HCELHRDACLTGSKIQVDYDGHCKEKKSVSPSASPVVCYQSNRDELRRRIQWLEAEIIPDGWFSKGSNYSEILD  
KYFKNFDNGDSRLDSSEFLKFVEQNETAINITTYPDQENNKLLRGLCVDALIELSDENADWKLSEFLKCLNPS  
FNPPEKKCALEDETYADGAETEVDNRCVCACGNWVCTAMTCDGKNQKGAQTQTEEMTRYVQELQKHQETAECT  
KRVSTKEI

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**FIGURE 1218**

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT  
ACAACATATCTCCGGAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC  
TGCTTCAGTACAACGATCCCAACCGCCGAGGGGCTCATCGAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA  
CAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTITGGGCCCC  
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAATTGGATC  
GAACATTTACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCTGCCTAAATAAATCATCTATTAAT  
CATTAAAAAAAAA

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**FIGURE 1219**

MSFPKYKPSSLRTLPETLDPAEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN  
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHL SY



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**FIGURE 1220**

GATGACACACAATAATTTTTGGTTGAAGAAGATAGAAATCAGTGTTTCAGAAGCAGAAAAACGAACTGGAAGAAA  
TGCCATGAACATGCAAGAAACATATACTGCTTACCTCATTGAAACAAGGTCAGTTGAACATACCGATGGTCAGAG  
TGTCTTAACAGACTCACTATGGCGGCGATATAGTGAATTTGAGTTGTTGAGAAGCTACCTTTTAGTTTACTATCC  
ACATATTGTTGTGCCACCTCTGCCAGAAAAACGGGCAGAATTTGTTTGGCATAAACTCTCTGCTGACAACATGGA  
TCCAGATTTTGTGGAGAGGCGACGGATTGGTTTAGAAAACCTTCTCTTGAGGATTGCTTCACATCCCATCCTTTG  
TAGAGACAAAATCTTCTATCTGTTTTTAACACAGGAAGGTAAGTGAAGGAGACTGTGAATGAACTGGGTTTCA  
GCTGAAGGCAGACTCCAGGTTAAAAGCGCTTAATGCAACATTGAGAGTGAAAAACCCAGACAAGAGATTTACTGA  
CCTTAAGCACTATAGTGATGAAGTGCAGTCTGTCATCTCACATCTTCTTCGAGTCAGAGCTAGAGTAGCAGATCG  
ACTCTATGGTGTATATAAAGTACATGGGAATTATGGTCGAGTTTTTCAGTGAATGGAGTGCCATAGAAAAAGAAAT  
GGGTGATGGACTGCAGAGTGCTGGTCAICATATGGATGTGTATGCATCTTCTATTGATGATATTTTGAAGATGA  
AGAACATTATGCAGATCAGTTAAAAGAGTATCTTTTTTATGCAGAAGCATTGCGGGCTGTGTGCAGGAAACATGA  
ACTTATGCAGTATGACTTGGAGATGGCTGCTCAGGACTTAGCATCCAAGAAGCAGCAGTGTGAGGAAGTGGTAAC  
TGGGACTGTGAGAACATTCTCTTTGAAGGGAATGACTACCAAGCTCTTTGGTCAAGAACTCCAGAGCAGAGAGA  
AGCCAGAATAAAGGTGCTAGAAGAACAATAAATGAAGGAGAACAACAGCTAAAGTCTAAAAATCTGGAAGGCAG  
AGAATTTGTGAAAAACGCATGGGCTGATATTGAACGCTTCAAGAACAAGAACCGAGACTTAAAGGAGGCCCT  
CATAAGCTATGCAGTCATGCAGATCAGTATGTGCAAAAAGAGTCTCACCTGTCAACCAGGCTGGAGTGCAATGG  
CATGATCTCAGCTCACTACAACCTCCGCTCCCGTGTTCAAGCAATTCTACCTCATCCAGCCGAGTAGATGGGAT  
TACAGGGAATTCAAGTTTGGACCAATGCTAAGGAATGCTTTAGCAAGATGTAATCCTGTGAATTGAATTTCTCTT  
CAATCAAAGTGCCCCAAAACAGAAGCACAAAGTAAATAAAAGAAATTTAAGTCACTACCTAGTATACATAAACATA  
TACAATAAGTTAAATAAATTCAGCTTTCTTTAACTTAATTGTGGTCGTGTTAATGTAGCACAAAAAATATATTTT  
AATGAAGATTAAATATTATAATTTGAGGTTTTGGGGACTGGTGCTGATTCCAAAAAGTTAATTTAATAATATATA  
CCAACAGATTGTTTGTACGCTTCTGAACCAATGACTGAATGTCAAGATGTTGTTAATTTCTAGATGTTTGT  
CAAGACCAGCTGTTTCAAGATCTATTAATGTAGGGAATTTTCCCTAAGATTGAATTCCTATATTTACTTGGTAAG  
ATCCACTAATCTGTTATAGGGAGTTGTTTTCTCTTGCCTTATAGTTGAGCTATTTGGTTTGACAAAGCTCAGCAG  
AACTTGATGTGAAAAATCTACGATTTTCTTCTACATTGATGCCCCCTTGAATGTTTGCATACACTAGAAA  
ATGCCTTCAATTTGTGTTTTACCAGAATTTTGATACTGGTCAGAAATTTTATACTGCCAACAAAGAAGACTCAAC  
TTCTCAGATCTATAATGGGATACATTGTCATCCTCTAGCAACTCCTATATAGAAAGTTTTAACTGAATATGTTAC  
ATATAAGAATTAAATCTTCTCAAATAATTCTTAACCTCAGTAATGAGCCTAAATTTACTCTGCTTGGCTCTCTA  
CACATGGCATTTCAGGGTATAAGATGTAGCATTTCATGTGTAAGATATATGTACTAAACATATGTGTTGCTATC  
TTCATCATTAACATCCTTCTTTCTATTGCTTGGCTGTAATTTTGTAAAGATAAATTATATTGTTTTTTTGTAT  
GTGTGTTTGTAGTATATGTTTCAAGGCAAGCATCTTCATTTTGTAGCTTTGCAGAACTTAAATGTGTACTC  
GTTATTTCTAATGATGTAAAAAATCCCTAGTCCTGTTTAGCATTTGACTTTTTTATATGTTTTAAATGTTGC  
TGGATTTTTGTGCTGTTTGCCAACTTATACAATAAATAAATGAAATATTGTGCTG

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**FIGURE 1221A**

GCAATTTTAGAATGTGCTGGACAAAATGTAGAAAGGGAATGTTCTCAGCAAGCTCAGCAGCGCAAAAATGATTAT  
ATAATCACCGGAGGTGGATTTTTGAGGTGCAAGAATATCATTCATGTAATTGGTGGAAATGATGTCAAGAGTTCA  
GTTTCCTCTGTTTTGCAGGAGTGTGAAAAAAAATTACTCATCCATTTGCCTCCCAGCCATTGGGACAGGAAAT  
GCCAAACAACACCCAGATAAGGTTGCTGAAGCCATAATTGATGCCATTGAAGACTTTGTCCAGAAAGGATCAGCC  
CAGTCTGTGAAAAAGTTAAAGTTGTTATCTTTCTGCCTCAAGTACTGGATGTGTTTTATGCCAACATGAAGAAA  
AGAGAAGGGACTCAGCTTTCTTCCCAACAGTCTGTGATGTCTAACTTGCATCATTTTTGGGCTTTTCAAAGCAA  
TCTCCCCAAAAAAGAATCATTTGGTTTTGGAAAAGAAAACAGAATCAGCAACTTTTCGGGTGTGTGGTGAAAAAT  
GTCACGTGTGTGGAATATGCTATCTCCTGGCTACAAGACCTGATTGAAAAAGAACAGTGTCTTACACCAGTGAA  
GATGAGTGCATCAAAGACTTTGATGAAAAGGAGTATCAGGAGTTGAATGAGCTGCAGAAGAAGTTAAATATTAAC  
ATTTCCCTGGACCATAAGAGACCTTTGATTAAGGTTTTGGGAATTAGCAGAGATGTGATGCAGGCTAGAGATGAA  
ATGAGGCGATGATCAAGAGAGGTTTCGATTGGGCAAAGAACAGGAATCCCGGGCAGATTGTATCAGTGAGTTTATA  
GAATGGCAGTATAATCGACAATAACACTTCTCATGTGTTTTAACAAAATGACCAATCTGAAATTAGAGGATGCAA  
GGAGAGAAAAGAAAAAACAGTTGATGTCAAAATTAATCATCGGCACTACACAGTGAAGTTGAACACATACACTG  
CCACAGACACAAAGGGCCACAGTTTATCTGTTTCAGCGCTCACGAAATCCAAAGTTGACATCCCTGCACACTGGA  
GTGATATGAAGCAGCAGAATTTCTGTGTGGTGGAGCTGCTGCCTAGTGATCCTGAGTACAACACGGTGGCAAGCA  
AGTTTAATCAGACCTGCTCACACTTCAGAATAGAGAAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCT  
ACCAGGCAAAGAAAAAACTATGGATGCCAAGAATGGCCAGACAATGAATGAGAAGCAACTCTTCCATGGGACAG  
ATGCCGGCTCCGTGCCACACGTCAATCGAAATGGCTTTAACCGCAGCTATGCCGGAAGAATGCTGTGGCATATG  
GAAAGGGAACCTATTTTGTGTCAATGCCAATTATTCTGCCAATGATACGTACTCCAGACCAGATGCAAAATGGGA  
GAAAGCATGTGTATTATGTGCGAGTACTTACTGGAATCTATACACATGGAAATCATTCAATTAATTGTGCCTCCTT  
CAAAGAACCCTCAAATCCTACTGACCTGTATGACACTGTACAGATAATGTGCACCATCCAAGTTTATTTGTGG  
CATTTTATGACTACCAAGCATACCCAGAGTACCTTATTACGTTTAGAAAATAACACTTTGGTATCCTTCCCACAA  
AATTATTCTCCATTTGTACATATCTAGTTGTAAACAAAGTTTTAGCTTTTTTTTTTAATTCCTCTTAACAGATTT  
TTCTAATATCCAAGGATCATTCTTTGTGCTGAAGTCAGTCTTTCTTCAGCTTCCCTTTCATAATGGAAATGAAC  
TTATTATCTTGAGAGCAAATAACTTGGAAAATTTAAATGAGATAATGCAGTTGCAACTGTGTGTCCACAAGTATG  
GACATCAAATCTGTGGGAAAAGAACAGGTTTGTATTTTCAGGAAGGAGAGAATAACAGTCTTATAGACAGAGGGC  
ACAGCTAAGCACAGCTGCCACTGCAGGAGACAGGCCCCATGTCAGGATGCCATAGTGCTGTGGGGAGCACAGTAT  
TACCCAGTGGGTAGGGCTTCTGTCTTCCCTGGGAGCAGGGATGGTATCTTAGTCAATTTTTTTCCCTTGAGATGA  
GGTCTGTGCTGATGTACAACGGATACTCCATAAATGTTTGACAAACCAACGAAGAATGAAAAAAGCCTAGTCA  
GACTCCCATCCAAGTAGGAATCTCTTTAACATTCTTGACTCACTATCACTTTACCTCAAATTGAACAGATT  
CCATGACGGAACCTTATTCTTCAAACTAGCCAGTGACATGTGGGACAGCTCTGGCCAGGGCTCTGGGACTGCA  
GTGTACTTGCCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGCCCCATGGAG  
TTGCGCAGCACAAACCCTGGCTCCAATTGCCAGAAGGCTCTTTTAAATGCTGAACCAAATGTGCCTTTTTTTTTT  
TTTTTTTGGAGATGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGGATCTCAGCTCACTGCAGCCAC  
TGCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACC  
CAGCTAATTTTGTATTTTGTAGTAGAGACGAGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCACCTCAGC  
CTCCCAAACCTGCTGGGATTACAGGTGTGAGCCACCGTGACCAGCCAATGTGCCTTCTTATAGTGTCTACTCATTG  
GTCTTTGTCTGCCAGTGATAACAATGGGATAACGCCTGTACACATCTTATTGTGAAACCCTTCCCTGTGC  
TGAGATTAAATGAAGTCTAAGATTATTAATAGTATATTTTCCCTTGACAGCCTAGCGTTTGATGATTTTAAAGCC  
TTATGTATAAATAAACCAAGGAAGTAAGCAGTCATATTGCTAATTTGCTAATCTCTATCTATTGAATGGTGAAG  
TTTTAAAAATTTCCCAGGTAAGTTAAGATTCAAACACCATCTATTGAGCACCTACATTGTGTGCCAGGTAGTA  
AAATAGGTGCTTTCATACACATTGTCTCAATTCTGTGAGGTCAGAATTATCTCTGCATTTGAACTTGAGGAAA  
CATGCTCAGAGTGCAAGAAGCTTCTTGCCTGAGATCACCTAGAAAGGAACCCCTCAGAGCCGGCAACTGAATCTT  
GGTCCCTGTGATGTCAAGCCCATGTCTCTCCACTGCAGAACATGGCCTCTAGATTAATGCCACCGATTACAGGAA  
CACCTCCGACAGTCTTGAAATACCCCATGTTGCCTTGTGTTTTTCTTCTGGCTTCTTCTATTACAGTCTC  
TTCAATTGGAAGCTCTGTAGGCCAAGGCCAGAGCTGATACTGACACGGAGCCAATGCAGATAGCACATCAGATGCT  
AGGGGTGCTGGGAGGATTAAGGGACTTAATCTGCTAGGAACACCTGTACTTGAAGTGGAGGAGGCTAGGGGGCC  
ACAGTTGCTGCTTCATTAACATAGAGGTTTTGGATTTTTTCTCTTGTGGTTGTTTTTTAAGTGGATTGGCAGA

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**FIGURE 1221B**

CTCCTTGTTGCTTAAGAGTGGCTTTCTAGGCAGGCCACTGGCATCTGAATTCATCATTGACAATAAATGTAAGAA  
ATTGGAATAAAAAAGAGAGACCTGCTGTTATTCGCTTTTGTTCTCCAGTGATTGATTAACTCAGGGCAAGGCTG  
AATATCAGAGTGTATCGCACTGAAGAATAATAATCCATTCAGTAATGTTATAGTTATCCTCAATCTAAATATGTC  
AACTGTCATTTTGCTACTTTCAAATAAAATACTTGAAAAC TGTC

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**FIGURE 1222**

MKKREGTQLSSQQSVMSKSLASFLGFSKQSPQKKNHLVLEKKTESATFRVCGENVTCVEYAIISWLQDLIEKEQCPY  
TSEDECIKDFDEKEYQELNELQKKLNINISLDHKRPLIKVLGISRDVMQARDEIEAMIKRVRLAKEQESRADCIS  
EFIEWQYNDNNTSHCFNKMTNLKLEDARREKKKTVDVKINHRHYTVNLNTYTATDTKGHSLSVQRLTKSKVDIPA  
HWSDMKQQNFCVVELLPSDPEYNTVASKFNQTCSHFRIEKIERIQNPDLWNSYQAKKKTMDAKNGQTMNEKQLFH  
GTDAGSVPHVNRNGFNRSYAGKNAVAYGKGTYFAVNANYSANDTYSRPDANGRKHVYYVRVLTGIYTHGNHSLIV  
PPSKNPQNPTDLYDTVTDNVHHPSLFVAFYDYQAYPEYLITFRK

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**FIGURE 1223**

GAATTCGGGGGGCGCCGGAGTGGAGAAAGGAGCCAGCGGTGGGCAGCGCTGCTGGGATGGCGCGGGCCGGGCCGG  
CGTGGCTGCTGCTGGCAATCTGGGTGGTCCTGCCATCATGGCTGTCCTCTGCAAAGGTCTCCTCGCTCATTGAGA  
GAATCTCTGACCCCAAGGACTTGAAAAAACTGCTCAGAACCCGGAATAATGTACTGGTGCTTTACTCCAAATCTG  
AGGTGGCAGCTGAAAATCATCTCAGGTTACTGTCCACAGTGGCCAGGCGGTGAAAGGACAAGGGACCATCTGCT  
GGGTGGACTGTGGTGATGCAGAGAGTAGAAAAATTGTGCAAGAAGATGAAAGTTGACCTGAGCCCGAAGGACAAAA  
AGGTTGAATTATTCCATTACCAGGATGGTGCAATTTCTACTGAATATAACCGAGCTGTGACATTTAAGTCCATAG  
TGGCCTTTTTGAAGGATCCAAAAGGGCCCCCACTGTGGGAGGAAGATCCTGGAGCCAAAGATGTTGTCCACCTTG  
ACAGTGAAGGACTTCAGACGGCTCCTGAAGAAGGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCCCTGGT  
GCAGCATGTGCAAGAGGATGATGCCGCATTTCCAGAAGGCTGCGACTCAGCTGCGAGGCCACGCCGTGCTGGCCG  
GGATGAATGTCTACTCCTCTGAATTTGAAAACATCAAGGAGGAGTACAGCGTGCGCGGCTTCCCCACCATCTGCT  
ATTTTGAGAAAGGACGGTTCTTGTTCCAGTATGACAACTATGGGTCCACAGCTGAGGACATTGTGGAGTGGCTGA  
AGAATCCGCAGCCGCCACAGCCCCAGGTCCCTGAGACTCCCTGGGCAGATGAGGGCGGCTCCGTTTATCACCTGA  
CCGATGAAGACTTTGACCAGTTTGTGAAGGAACACTCCTCTGTCTCGTCATGTTCCACGCCCCATGGTGTGGCC  
ACTGTAAGAAAATGAAGCCGGAGTTTGAGAAGGCAGCAGAAGCCCTCCATGGAGAAGCGGATAGCTCTGGTGTCC  
TTGCAGCTGTGATGCCACTGTCAACAAGGCCCTGGCAGAAAGATTCCACATCTCAGAGTTTCTACGTTGAAGT  
ATTTTAAGAATGGAGAGAAATACGCAGTGCCTGTGCTCAGGACAAAGAAGAAGTTTCTCGAGTGGATGCAAAACC  
CTGAGGCCCCCCCCGCCCCAGAGCCACGTGGGAAGAGCAGCAGACAAGCGTGTTGCACCTGGTGGGGGACAACT  
TCCGGGAGACCCTGAAGAAGAAGAAACACACCTTGGTTCATGTTCTACGCCCCCTGGTGCCACACTGTAAGAAGG  
TCATTCCGCACTTTACTGCTACTGCTGATGCCTTCAAAGATGACCGAAAGATTGCCTGTGCCGCTGTTGACTGTG  
TCAAAGACAAGAACCAAGACCTGTGCCAGCAGGAGGCGGTCAAGGGCTACCCCACTTTCCACTACTACCACTATG  
GGAAGTTCGCAGAAAAGTATGACAGCGACCGCACAGAATTGGGATTTACCAATTATATTCGAGCCCTCCGGGAGG  
GAGACCATGAAAGACTAGGGAAAAAGAAGGAAGAGTTATTAATTCCTGCCTCAGAAAAAGCTTTTCCATTACACTG  
TGAATGATACCTGTTTTGTTGTTTCTGAATTTCCCCCGAATTC

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**FIGURE 1224**

MARAGPAWLLLLAIWVVLPSWLSSAKVSSLIERISDPKDLKKLLRTRNNVLVLYSKSEVAAENHLRLLSTVAQAVK  
GQGTICWVDCGDAESRKLCKMKVDLSPKDKKVELFHYQDGAFTTEYNRAVTFKSIVAFKDPKGPPLWEEDPGA  
KDVVHLDSEKDFRRLKKEEKPLLIMFYAPWCSMCKRMPHFQKAATQLRGHAVLAGMNVYSSEFENIKEEYSVR  
GFPTICYFEKGRFLFQYDNYGSTAEDIVEWLKNPQPPQPVPETPWADEGGSVYHLTDEDFDQFVKEHSSVLVMF  
HAPWCGHCKMKPEFEKAAEALHGEADSSGVLAAVDATVNKALAERFHISEFPTLKYFKNGEKYAVPVLRTKKKF  
LEWMQNPEAPPPPEPTWEEQQTSLHLVGDNFRETLLKKKKHTLVMFYAPWCPHCKKVIPIHFTATADAFKDDRKIA  
CAAVDCVKDKNQDLCQQEAVKGYPTFHYHYHGKFAEKYDSDRTELGFTNYIRALREGDHERLGKKKEEL

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**FIGURE 1225**

CTCAGACTGCTGTGCTAGCAATCAGTGAGACTCCGTGGGCGTAGGACCCTCTGAGCCAGGTGCGGGATATAATCT  
TGTGGTGCGCCGTTTTTTAAGCCGGTCCGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTCCAGGGCTGT  
GACCATCTATGACAAGCCGGCATCTTTCTTTAAAGAGACACCTCTGGACCTGCTGCACCGGCTCTTCATGAAGCT  
GGGTGGCACTCACTCTCTGTTCAGGGCCTGCTCAGAACCTGAGGACGCAGCCATGGAGCGGTGCGCCTTCATGGA  
GCTGGATGCTGGGAGCAGGCTGGTGATGCATCTCCGCGAGTGGCCAGCCCTGCTGGTCAGCAGCACGGGCTGGAC  
AGAGTTTGAACAACTTACTCTTGATGGACACAACCTTCCTTCTCTTGTCTGTGTGATAACAGGGTCGGTGGACCT  
GGGTGCTGTCTGCACATGTCCTCCAGTGGCCTGGACCTGCCCCATGAAGGTGGTGGACATGTTCCGGGTGCTGTTT  
GCCTGTGTGTGCCGTGAACCTTCAAGTGTTTACATGAGCTGGTGAAACATGAAGAAAATGGCCTGGTCTTTGAGGA  
CTCAGAGGAACTGGCAGCTCTGCAGATGCTTTTCTCAAACTTTCTGATCCTGCAGGCAAGCTAAACCAGTTTTG  
GAAGAACCTGCGGGAGTCGCAGCAGCTCCGATGGGATGAGAGCTGGGTGCAGACTGTGCTCCCTTTGGTTATGGA  
CATACAACTCCTGGGCCAGAGGCTAAAACCCCGGGACCCCTGCTGTCTTCCCGCAGCTTCTTCTCGGAGTCTCA  
GGGCAAACCCCTTTTGAGCAGCGCCTCCAGTGGCCAGAAGCTGAAATGACGGCAGTGGTGCCGCCTGGTGAATGA  
ATTGGTTCTGTGACCCGG

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**FIGURE 1226**

MKLGGTHSPFRACSEPEDAAMERSAFMELDAGSRLVMHLREWPALLVSSTGWTEFEQLTLDGHNLP  
SLVCVITGS  
VDLGVCLHMSSSGLDLPKVVDMFGCCLPVCVAVNFKCLHELVKHEENGLVFEDSEELAALQMLF  
SNFPDPAGKLN  
QFWKNLRESQQLRWDESWVQTVLPLVMDIQLLGQRLKPRDPCCPSRSFFSESQGKPF



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**FIGURE 1227**

GCAGACACGTG**ATC**CGGGGGAGGGGGGGGGGGCGTGGCAGGAGCAAGCGTCTGCCGCGGTGGCCGGGTGCCGGTA  
AGGGTTTCCAGCGCCCCCGGCCTAGGTTTTGGAGGCGCGGGAATGCGTTCGTTGCTCAGTGTCCGACTTCCCCCT  
ATTCCCATCGGCCGAGGCTGTCACTTTACGCTCATAACCGTTTTTCTTTACTGCACTCGTGTCCGGAGGAAAGGG  
ACTTGCCTGGCACCCCCAGACCTCCCCGTCTCCGCTTCCACGTTTGGTACATCCTGCCTGAGGCAGGAAGCCGCA  
GCT**GAG**GGGACGGCCTGTCGTACGGTGCGGATGGTGGTGGCCTGCGAGGCTCATTCTAGCAAGGAACAAGGCTTT  
CCCGCTTTGATTTTATAAATATTATGTTTACAAAGCTGTAATATATAGAAATTGATAAGACGTGTCCCTGTCCCT  
GGAAACGCAGGCACCGCGTGTGGAAAGACATTCATCTGGGCTGTTTGACAGACTCCCCAGTTGGTGCCATGCT  
CTGTGCTTAGGGAACCTGTGAGACCCCTGGAGGGGTGGGTACCGGGACCGCACTCAGCCTGGGGTTTGGAGGCGGC  
CTCCTATAGGAAGCGACCTGGGACCTAAGATTTTAGACTGACTGTGGGTTCACTGGAATAAAAAGGAAGAAACA  
AAGAGCATTGCAGGCATCGGGACTGTACATTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTTCTAGA  
GAGATGGAAGGATCTTGATTTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGATGTCGCAATAC  
CACTGAATGAGCTTCCTGAACCTGAACAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGT  
GGACAGACTTAGCCTTACAGTACCTCCATGAGAATGTTCCCCCATTTGGAAACTGACGCTTGGCTCCTTTCTTGT  
GGATGGATTTTCTCAAAGTACACAGATAAAGCATGGTTTGTTCAGTCTCCAAATTCAAACCTTTGAGTAATAAA  
TCAGCACTCAAAAATGTACACCCATTTAGTTTGTGGTAGCAAAGTGCAATGCGAAATTGAATGAGAACTGAGAT  
TTCTCAGTAATGGTGAATATTTGCTCTTTAAACCTAAAACCTTTCATTGAGTAGCTTATATTTGAACATGATTG  
GTTAAACATTTGCCTCTACCTCTGATTTTGCTTTGCTGTCAAAGTTTAACACCTTCCAACCTTATGTGTGTCC  
TGTAACACAGGTGATTGAACGTATGAGAGGGAAAGGCAAAGAAAAGGAAGCCAGACACTAGGAGAATTATTAAC  
TTCTCATACTTCCCCACATTGAGAAGCATTTCGGAGTGATTTAGCCTGTAGATGTTGTGATATGCAAATATCCCA  
TTCCCTGGTTACTGGCATTCTAAGATTCTTCATGGTATTTCAAACCTTTGGATAAATTTACAGATTAGAAAGAT  
ATCTGACAGT**TAAT**CTCTGTTCTCCTTACAAATTCCTTTTGTGCTGCTGGAAAGGATCTTTGGCTAGGTGGATGA  
CTAGTTTTATTCAAAGCCTTTTCTCAAAGCCCTTTCAGTTACAACCACCCCACTATGGAATCAGTATTTAGTTAT  
ACATTTGTATAAGAACCTGTATTTTGAAAAACACATTCATGTATATTTATTCCTGGAATTATTTGCCTGTAAAC  
AGTGTCTTTCATGTTCTCTCCCAGATTGTAACTCTGTAAAGAGCTGCTTGTATCTGTATCCCTTGTTGAAACT  
CTGAAAACACTGAATAACTAAAATCTCTTCTCATCCTTTT

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**FIGURE 1228**

MRGRGGGRGRSKRLPRWPGAGKGFQRPRPRFWRRGNAFVAQCRTSPYSHRPRLSLYAHNRFSLLHSCREERDLRG  
TPRPPRLRFHVWYILPEAGSRS

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**FIGURE 1229**

AGTGGCGGAGAGGATCGTGGTACTGCTATGGCGGAATCATCGGAATCCTTCACCATGGCATCCAGCCCCGGCCAG  
CGTCGGCGAGGCAATGATCCTCTCACCTCCAGCCCTGGCCGAAGCTCCCGCGTACTGATGCCCTCACCTCCAGC  
CCTGGCCGTGACCTTCCACCATTGAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGGCCCTGGAGGAAGAA  
GAGGATGGAGAGGAGCTCATTGGAGATGGCATGGAAAGGGACTACCGCGCCATCCCAGAGCTGGACGCCTATGAG  
GCCGAGGGACTGGCTCTGGATGATGAGGACGTAGAGGAGCTGACGGCCAGTCAGAGGGAGGCAGCAGAGCGGGCC  
ATGCGGCAGCGTGACCGGGAGGCTGGCCGGGGCCTGGGCCGCATGCGCCGTGGGCTCCTGTATGACAGCGATGAG  
GAGGACGAGGAGCGCCCTGCCCGCAAGCGCCGCCAGGTGGAGCGGGCCACGGAGGACGGCGAGGAGGACGAGGAG  
ATGATTGAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCACTCTGTGCGGAGTGGGTGAGCATGGCGGGCCCC  
CGGCTGGAGATCCACCACCGCTTCAAGAACTTCTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAG  
GAGCGCATCAGCGACATGTGCAAAGAGAACCCTGAGAGCCTGGTGGTGAATATGAGGACTTGGCAGCCAGGGAG  
CACGTGCTGGCCTACTTCTGCGCTGAGGCACCGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTG  
GTACTGGCCATGTACCCCAAGTACGACCGCATACCAACCACATCCATGTCCGCATCTCCACCTGCCTCTGGTG  
GAGGAGCTGCGCTCGCTGAGGCAGCTGCATCTGAACCAGCTGATCCGCACCAGTGGGGTGGTGACCAGCTGCACT  
GGCGTCTGCCCCAGCTCAGCATGGTCAAGTACAAGTGAACAAGTGCAATTTCTGCTCTGGGTCTTTCTGCCAG  
TCCCAGAACCAGGAGGTGAACCAGGCTCCTGTCTGAGTGCCAGTCCGGCCGGCCCTTTGAGGTCAACATGGAG  
GAGACCATCTATCAGAACTACCAGCGTATCCGAATCCAGGAGAGTCCAGGCAAAGTGGCGGCTGGCCGGCTGCC  
CGCTCCAAGGACGCCATTCTCTCGCAGATCTGGTGGACAGCTGCAAGCCAGGAGACGAGATAGAGCTGACTGGC  
ATCTATCACAACAATATGATGGCTCCCTCAACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCATCCTAGCC  
AACCACGTGGCCAAGAAGGACAACAAGTTGCTGTAGGGGAAGTACCAGTGAAGATGTGAAGATGATCACTAGC  
CTCTCCAAGGATCAGCAGATCGGAGAGAAGATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCATGAAGACATC  
AAGAGAGGCTGGCTCTGGCCCTGTTGCGAGGGGAGCCCCAAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGAT  
ATCAACGTGCTCTTGTGCGGAGACCCTGGCACAGCGAAAGTCGCAGTTTCTCAAGTATATTGAGAAAGTGTCCAGC  
CGAGCCATCTTACCACCTGGCCAGGGGGCGTGGCTGTGGGCCCTCACGGCGTATGTCCAGCGGCACCCTGTGAGC  
AGGGAGTGGACCTTGGAGGCTGGGGCCCTGGTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTTGACAAG  
ATGAATGACCAGGACAGAACCAGCATCCATGAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGCTGGCATC  
GTCACCTCCCTGCAGGCTCGCTGCACGGTCAATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTG  
ACTTTCTCTGAGAACGTGGACCTCACAGAGCCCATCATCTCACGCTTTGACATCCTGTGTGTGGTGAGGGACACC  
GTGGACCCAGTCCAGGACGAGATGCTGGCCCGCTTCTGTGGTGGGCGAGCCACGTGAGACACCACCCAGCAACAAG  
GAGGAGGAGGGGCTGGCCAATGGCAGCGCTGCTGAGCCCCGCATGCCAACACGTATGGCGTGGAGCCCCCTGCC  
CAGGAGGTCTGAAGAAGTACATCATCTACGCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACCAGGAC  
AAGGTGGCCAAGATGTACAGTGACCTGAGGAAAGAATCTATGGCGACAGGCAGCATCCCCATTACGGTGGCGCAC  
ATCGAGTCCATGATCCGCATGGCGGAGGCCACGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTC  
AACATGGCCATCCGCGTGATGCTGGAGAGCTTCATAGACACACAGAAGTTCAGCGTCATGCGCAGCATGCGCAAG  
ACTTTTGGCCGCTACCTTTTCAATCCGGCGTGACAACAATGAGCTGTTGCTCTTCATACTGAAGCAGTTAGTGGCA  
GAGCAGGTGACATATCAGCGCAACCCTTTGGGGCCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTG  
GATAAGGCTCGTCAGATCAACATCCACAACCTCTCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTC  
AGCCACGACCTGAAAAGGAAAATGATCCTGCAGCAGTCTGAGAGGCCCTATGCCATCCATAAGGATTCTTTGGGAT  
TCTGGTTTGGGGTGGTCAAGTGCCCTCTGTGCTTTATGGACACAAAACCAGAGCACTTGATGAACTCGGGGTACTA  
GGGTGAGGGCTTATAGCAGGATGTCTGGCTGCACCTGGCATGACTGTTTGTCTTCCAAGCCTGCTTTGTGCTTC  
TCACCTTTGGGTGGGATGCCTTGCCAGTGTGTCTTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGT  
CTCCACTCAGTACCTTGGATCAGAGCTGCTGAGTTCAGGATGCCTGCGTGTGGTTTAGGTGTTAGCCTTCTTACA  
TGGATGTCAGGAGAGCTGCTGCCCTCTTGGCGTGAGTTGCGTATTCAGGCTGCTTTTGCTGCCTTTGGCCAGAGA  
GCTGGTTGAAGATGTTTGTAAATCGTTTTAGTCTCCTGCAGGTTTCTGTGCCCTGTGGTGAAGAGGGCACGAC  
AGTGCCAGCGCAGCGTTCTGGGCTCCTCAGTCGCAGGGGTGGGATGTGAGTCATGCGGATTATCCACTCGCCACA  
GTTATCAGCTGCCATTGCTCCCTGTCTGTTTCCCCACTCTCTTATTTGTGCATTGCGTTTGGTTTCTGTAGTTTT  
AATTTTTAATAAAGTTGAATAAAATAT

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**FIGURE 1230**

MAESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLEEEEDGEELIGD  
GMERDYRAIPELDAEAEGLALDDEDVEELTASQREAAERAMRQORDREAGRGLGRMRRLLYDSDEEDEER PARK  
RRQVERATEDGEEDEEMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNVFKERISDMCKE  
NRESLVVNYEDLAAREHVLAYFLPEAPAEELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQL  
HLNQLIRTSGVVTSTCTGVLPQLSMVKYCNKCNFVLGPFCQSQNQEVKPGSCPECQSAGPFEVNMEETIYQNYQR  
IRIQESPGKVAAGRLPRSKDAILLADLVDSCKPGDEIELTGIYHNNYDGS LNTANGFPVFATVILANHVAKKDNK  
VAVGELTDDEDVKMITSLSKDQQIGEKIFASIAPSIYGHEDIKRLALALFGGEPKNPGGKHKVRGDINVLLCGDP  
GTAKSQFLKYIEKVSSRAIFTTGQASAVGLTAYVQRHPVSREWTL EAGALVLADRGVCLIDEFDKMNDQDRTSI  
HEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRD TVDPVQDEML  
ARFVVGSHVRHHP SNKEEEGLANGSAAEPAMPNTYGVEPLPQEV LKKYIIYAKERVHPKLNQMDQDKVAKMYSDL  
RKESMATGSIPITVRHIESMIRMAEAHARIHLRDYVIEDDVNMAIRVMLESFIDTQKFSVMRSMRKT FARYLSFR  
RDNNELLLFILKQLVAEQVTYQRNRF GAQQDTIEVPEKDLVDKARQINIHNL SAFYDSE LFRMNKFS HDLKRKMI  
LQQF

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**FIGURE 1231**

ACCATGGGCCGGCTGCTGCGGGCCGCCGGCTGCCGCCGCTGCTTTCCGCCGCTGCTGCTTCTGCTGGTTGGGGGA  
GCGTTTCCTGGGTGCCTGTGTGGCTGGGTCTGATGAGCCTGGCCCAGAGGGCCTCACCTCCACCTCCCTGCTAGAC  
CTCCTGCTGCCCACTGGCTTGGAGCCACTGGACTCAGAGGAGCCTAGTGAGACCATGGGCCTGGGAGCTGGGCTG  
GGAGCCCCCTGGCTCAGGCTTCCCCAGCGAAGAGAATGAAGAGTCTCGGATTCTGCAGCCACCACAGTACTTCTGG  
GAAGAGGAGGAAGAGCTGAATGACTCAAGTCTGGACCTGGGACCCACTGCAGATTATGTTTTTCTGACTTAACT  
GAGAAGGCAGGTTCCATTGAAGACACCAGCCAGGCTCAAGAGCTGCCAAACCTCCCCCTCTCCCTTGCCCAAGATG  
AATCTGGTTGAGCCTCCCTGGCATATGCCTCCCAGAGAGGAGGAAGAAGAGGAAGAGGAAGAGGAGGAGAGGGAG  
AAGGAAGAGGTAGAGAAACAAGAGGAGGAGGAAGAGGAGGAGCTGCTCCCTGTGAATGGATCCCAAGAAGAAGCC  
AAGCCTCAGGTCCGTGACTTTTTCTCTCACCAGCAGCAGCCAGACCCCCAGGGGCCACCAAAAGCAGGCATGAAGAC  
TCCGGGGACCAGGCCCTCATCAGGTGTGGAGGTGGAGAGCAGCATGGGGCCCAGCTTGCTGCTGCCTTCAGTCACC  
CCAATAACAGTGACTCCGGGGACCAGGACTCCACCAGCCAAGAGGCAGAGGCCACAGTGCTGCCAGCTGCAGGG  
CTTGGGGTAGAGTTCGAGGCTCCTCAGGAAGCAAGCGAGGAAGCCACTGCAGGAGCAGCTGGTTTGTCTGGCCAG  
CACGAGGAGGTGCCGGCCTTGCCCTTCATTCCCTCAAACCACAGCTCCCACTGGGGCCGAGCACCCAGATGAAGAT  
CCCCCTTGCTCTAGAACCTCAGCCTCTTCCCCACTGGCCCCCTGGAGACATGGAATGACACCTTCTCTGCTACC  
TTGGGACAAGAAGATCTCAACCAGCAGCTCCTAGAAGGGCAGGCAGCTGAAGCTCAATCCAGGATACCCTGGGAT  
TCTACGCAGGTGATCTGCAAGGACTGGAGCAATCTGGCTGGGAAAACTACATCATTCTGAACATGACAGAGAAC  
ATAGACTGTGAGGTGTTCCGGCAGCACCGGGGGCCACAGCTCCTGGCCCTGGTGAAGAGGTGCTGCCCCGCCAT  
GGCAGTGGCCACCATGGGGCCTGGCACATCTCTCTGAGCAAGCCCAGCGAGAAGGAGCAGCACCTTCTCATGACA  
CTGGTGGGCGAGCAGGGGTGGTGGCCACTCAAGATGTCCTTTCCATGCTGGGTGACATCCGCAGGAGCCTGGAG  
GAGATTGGCATCCAGAACTATTCCACAACCAGCAGCTGCCAGGCGCGGGCCAGCCAGGTGCGCAGCGACTACGGC  
ACGCTCTTCGTGGTGCTGGTGGTCATTGGGGCCATCTGCATCATCATCATTGCGCTTGGCCTGCTCTACAACCTGC  
TGGCAGCGCCGGCTGCCCCAAGCTCAAGCACGTGTGCGACGGCGAGGAGCTGCGCTTCGTGGAGAACGGCTGCCAC  
GACAACCCACGCTGGACGTGGCCAGCGACAGCCAGTCCGAGATGCAGGAGAAGCACCCACGCTGAACGGCGGC  
GGGGCCCTCAACGGCCCCGGGAGCTGGGGGGCGCTCATGGGGGGCAAGCGGGACCCCGAGGACTCGGACGTGTTC  
GAGGAGGACACGCACCTGTGAGCGCAGCCGAGGCGCAGGCCGAGTGGGCCGCCAGGACCAAGCGAGGTGGACCC  
GAAACGGACGGCCCCGAGCCCCGACCAGCCCCGCGCCTACCCGGGGCCGCCCCCGCGGCCTGGCCCTCGGCGCGGG  
CTCCTTCCCGCTTCCCCGACTTCACACGGCGGCTTCGGACCAACTCCCTCACTCCCGCCGAGGGGCAGGCCTC  
AAAGCCCCGCTTGGCCCCGCTTTCCCGCCCCTGAACCCCGGCCCGCGGGCGGCGGGCGGCGCTTCTGCGCCCC  
GGGACTCAATTAAACCCGCCCGGAGACCACGCCGGGCCAGCG

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**FIGURE 1232**

ATTTTACCTGATGCTATGAGAGAATCATATTGAAGATGAAATGTCTAATATATAATGTATATTTTAAAGCAGAGA  
CTATTTTGGTGGATAGGTGGGAGGGAGCAAGGGGAGTTTGAGGGAATCAGAGCTTGATGCTACTGTACAGAACTG  
GACAGGTTGGGCCGGCAGTGGTGGGGCCAGAGGGCTCTGTGCTCTAGGAGCTAAGCCAGCAGCCCCGAGAGGGG  
ACTTGGCTGGGCCTTTCCTATGGGCAAGGCCCAGTGCTCTTCCTGCCCACCAGGGACCATGGAGCAGTGGCACCC  
TATGGGGCTATGATCCCTAGGCCTGGGCCTGGGCCTGCCTATGGCCCCAGAGCTACCCTGGGAGTGTCTAGTGCTAG  
CAGCACAGCTACCTCTGGTGGCAGGAGAAGAGAGGCCCCAGCACAGCAGCAGGCCAGGCCTTCCTGTCCAGGTCTG  
CATGGAGCACTCGGTGACCCAGAGCAGGGACTGGAGGCACCCCCAGCCCTGCCCCAGGCCACAGCAGGACAGGCC  
GGGACAGGCCTCACCCAAGGCCAAGGCTGGCATCAGCCAATCATTAGAGCTGAGGCCCTGGGCCTAGCCTGCCC  
TTCTCAGGTGCCAATACCACCCCAGCCCTGCCCTTGGCCTCACTTTTTCCCAGCAATAAGTGGGGTTTACCAACC  
GCCTCGGGAATACTTTCCCTTCTAAATGGGACTTGCTGTTACCTCAGGAGGCTCCTTAGTGCAAATATGACCC  
GGTCAGGGCTTTGCCACCGTTGAAGCCCTGCAGAAGGTGCAATGTAGGGGTTCTGGGGCCACAGAGGAGAGGCCA  
CTTCCCACCAGGACCCCCAACATGAAGTCTAGGCCTCAGGGGCTCCCGCCCTTCTTCCTCCAGCAGCGGGAACTG  
CCACTGCTCTCCCAGGCCCTGTTCTGGAGGCTAACCTTGGTTCCTGGAGAGTGTGCCCTCCACCTCCCTCCAG  
CAGCCCTGATCACACCATGAGAGCCAGGAACGGGTCACCCTGCTGAAGATCACTCTGTGCCCTGGGGGAGGAGCC  
AAGCCCTCACCCACAAGGGGCAGGTGGGGGCTTGCTTGCTGACCCGGCCCAAGTCCCCACAGAGCACCTTCTGT  
AGCTCCAGCTTGTCTCCCTGG

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**FIGURE 1233**

MAQSYPGSVSASSTATSGGRRREAQHSSRPGLPVQVCMEHSVTQSRDWRHPQPCFRPQQDRPGQASPKAKAGISQ  
SFRAEALGLACPSQVPIPPQPCPWPFFPAISGVHHPPREYFLLNGTCCYLRRLLSANMTLVRALPPLKPCRRC  
NVGVLGPQRRGHFFPGPPT

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**FIGURE 1234**

CTGCAGACGAGGCAGGCGGAAGAGGCGGGACTTCGCGGGTGACGTCAATCGGGGCGCCGGAGGCCCGGGGCGCCTG  
GGAATTTGAAGCAAACAGGCAGCGCGCGACAATGGCGGTGCTCGTGACGCTTTGGGGCCATTGGTGACGGGTCT  
GTACGACGTGCAGGCTTTCAAGTTTGGGGACTTCGTGCTGAAGAGCGGGCTTCTCTCCCCATCTACATCGATCT  
GCGGGGCATCGTGTCTCGACCGCGTCTTCTGAGTCAGGTTGCAGATATTTTATTCCAACTGCCCAAATGCAGG  
CATCAGTTTTGACACCGTGTGTGGAGTGCCTTATACAGCTTTGCCATTGGCTACAGTTATCTGTTCAACCAATCA  
AATTCGAATGCTTATTAGAAGGAAAGAAACAAAGGATTATGGAACAAAGCGTCTTGTAGAAGGAATATTAATCC  
AGGAGAAAACCTGTTTAAATCATTGAAGATGTTGTACCAAGTGGATCTAGTGTTTTGGAACTGTTGAGGTTCTTCA  
GAAGGAGGGCTTGAAGGTCACTGATGCCATAGTGCTGTTGGACAGAGAGCAGGGAGGCAAGGACAAGTTGCAGGC  
GCACGGGATCCGCTCCACTCAGTGTGTACATTGTCCAAAATGCTGGAGATTCTCGAGCAGCAGAAAAAGTTGA  
TGCTGAGACAGTTGGGAGAGTGAAGAGGTTTATTAGGAGAAATGTCTTTGTGGCAGCGAATCATAATGGTTCTCC  
CCTTCTATAAAGGAAGCACCCAAAGAACTCAGCTTCGGTGACGTGCAGAGCTGCCAGGATCCACCCAGTTGC  
ATCGAAGCTTCTCAGGCTTATGCAAAAGAAGGAGACCAATCTGTGTCTATCTGCTGATGTTTCACTGGCCAGAGA  
GCTGTTGCAGCTAGCAGATGCTTTAGGACCTAGTATCTGCATGCTGAAGACTCATGTAGATATTTTGAATGATTT  
TACTCTGGATGTGATGAAGGAGTTGATAACTCTGGCAAATGCCATGAGTTCTTGATATTTGAAGACCGGAAGTT  
TGCAGATATAGGAAACACAGTGAAAAAGCAGTATGAAGGAGGTATCTTTAAATAGCTTCTTGGGCAGATCTAGT  
AAATGCTCACGTGGTGCCAGGCTCAGGAGTTGTGAAAGGCCTGCAAGAAGTGGGCCTGCCTTTGCATCGGGGGTG  
CCTCCTTATTGCGGAAATGAGCTCCACCGGCTCCCTGGCCACTGGGGACTACACTAGAGCAGCGGTTAGAATGGC  
TGAGGAGCACTCTGAATTTGTTGTTGGTTTTATTTCTGGCTCCCGAGTAAGCATGAAACCAGAATTTCTTCACTT  
GACTCCAGGAGTTCAGTTGGAAGCAGGAGGAGATAATCTTGCCAACAGTACAATAGCCACAAGAAGTTATTGG  
CAAACGAGGTTCCGATATCATCATTGTAGGTCGTGGCATAATCTCAGCAGCTGATCGTCTGGAAGCAGCAGAGAT  
GTACAGAAAAGCTGCTTGGGAAGCGTATTTGAGTAGACTTGGTGTGTTGAGTGCTTCAGATACATTTTTCAGATAC  
AATGTGAAGACATTGAAGATATGTGGTCCTCCTGAAAGTCACTGGCTGGAAATAATCCAATTATTCTGCTTGG  
TTCTTCCACAGGGCCTGTGTAAGAATGGGTTCTGGAGTTCTCATGGTCTTTAGGAAATATTGAGTAATTTGTAAT  
CACCGCATTGATACTATAATAAGTTCATTCTTAAGCTTGCTTTTTTTGAGACTGGTGTGTTGTTAGACAGCCACAG  
TCCTGTCTGGGTTAGGGTCTTCCACATTTGAGGATCCTTCCTATCTCTCCATGGGACTAGACTGCTTTGTTATTC  
TATTTATTTTTTAAATTTTTTTTCGAGACAGGATCTCACTCTGTTGCCCAGGATGGAGTGCAGTGGTGAGATCACGG  
CTCATTGCAGCCTCGACCTCCAGGTGATCCTCCACCTCAGCTTCCAGATTAGCTGGTGCTATAGGCATGCACC  
ACCACGTCCATCTAAATTTCTTTATTATTTGTAGAGATGAGGTCTTGCCATGTTACCCAGGCTGGTCTCAACTCC  
TGGGCTCAAGCGATCCTCCTGCCTCAGTCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCAGCCTA  
ATTGCAGTAAGACAAAATTTCTAGGGCACCAAGAGGCTAAAGTCAGCACAGCTTTTCTTGTGTCTGTATT



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**FIGURE 1235**

CTCGGGTCTGGTGGCTGCCGGCCCTGCGGCATCTCGCCATGGGGAGCACGGAGAGCAGCGAGGGCCGCAGGGTGT  
CCTTCGGAGTGGACGAGGAGGAGCGGGTCCGGGTGCTGCAGGGTGTCCGGCTGTCTGAAAACGTGGTGAACCGCA  
TGAAGGAGCCCAGCTCTCCACCCCTGCTCCACATCTTCTACCTTTGGCCTTCAAGATGGCAAATTGAGAGCCC  
CTCACAAAGAATCCACACTGCCCAGGTGCGGGGAGCAGTGGTGGCCAGCAGCCCTCAGGGATGAAGGAGGGTGTCA  
AGAGGTATGAACAGGAGCATGCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAAGAGGGAAAGAGAGGCTGCCA  
CCAAGCACTCCAAGGCATCCCTGCCCACGGGCGAAGGCAGCATCAGCCATGAGGAGCAGAAGTCAGTCCGGCTGG  
CCAGGGAGCTGGAGAGCAGAGAGGCAGAGCTAAGACGCCGTGACACCTTCTACAAGGAGCAGCTGGAGCGTATTG  
AGAGGAAGAATGCTGAGATGTATAAACTGTCTTCAGAGCAATTCCATGAGGCAGCCTCAAAGATGGAGAGCACAA  
TAAAGCCCCGCAGGGTGGAGCCCGTCTGCTCAGGGTTGCAGGCCCAGATTCTCCACTGCTACCGAGATCGCCCGC  
ATGAGGTGCTGCTGTGCTCGGACCTGGTCAAGGCATACCAGCGCTGCGTGAGCGCCGCCACAAGGGCTTGAGGAG  
CAGACATCATTCCCTGCCCTGGCAGTGACTTGAGCCCTGAAGAAGGGACCAATCATGGGACCACAGCCACTGTG  
CCCTGCCGTTTCCTGCTGGGCCCCCTGCATATGCCCTGAGCCTGGGGCTGCCACGTGTTTAGGAAACAAAGTATG  
CGCTACTGTCTGAAAACAAATAAAGCAGATGCCTTTGTTTTAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAA

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**FIGURE 1236**

MGSTESSEGRVVSFGVDEEERVRLQGVRLSENVVNRMKPSSPPPAPTSSTFGLQDGNLRAPHKESTLPRSGSS  
GGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKREREAATKHSKASLPTGEGSISHEEQKSVRLARELESREAELRR  
RDTFYKEQLERIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEPVCSGLQAQILHCYRDRPHEVLLCSDLVKAY  
QRCVSAAHKG

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**FIGURE 1237**

GAGAGTGGCCAGCGAGGGCAGCGTTCGCCGCCCTCAGGCCCCGTCCCGGCCCGCAGCCGCCTGCGTTTCGGTT  
TGTGAGCAGGCCCGGCCGGGCCAGGAGCGAGAGCGAGACTCTGGAGCGGTGCGCCGCCAGTCGCCCCGGGCCGGG  
AAAGGCGGGCGATGCCCCCAACCGCCGCTCGGGCCATGTCCGAGGGGCGCGCTGTTGTCGCCGCCGGGGCGCCG  
TGCCCGCTGTCGTCCCCCGGGGCCAGCCGCTCGTCCGAGGCCCCGCGAGGAGCTGCGCCGCCACCTCGTGGGCCT  
CATCGAGCGCAGCCGGGTGGTGATCTTCAGCAAGAGCTACTGTCCCCATAGTACTCGGGTGAAAGAACTCTTTTC  
TTCTTTGGGAGTCGAATGTAATGTCTTGGAACCTTGATCAAGTTGATGATGGGGCCAGGGTTCAAGAAGTGCTGTC  
AGAAATCACTAATCAGAAAACCTGTGCCAATATTTTCGTGAATAAAGTGATGTAGGTGGATGTGACCAAACCTTT  
CCAGGCATATCAGAGTGGTTTGTTACAGAAGCTCCTTCAGGAAGATTTGGCATATGATTATGATCTCATCATCAT  
CGGTGGTGGTTCTGGAGGCCTTTTCATGTGCGAAGGAAGCTGCCATTTTGGGAAAGAAAGTTATGGTGCTAGACTT  
TGTTGTCCCGTCACCTCAGGGCACATCCTGGGGTCTTGGTGGCACTTGTTGTAATGTAGGTTGTATTCTTAAGAA  
ATTGATGCATCAGGCTGCCCTTTTGGGGCAGGCATTATGTGACTCAAGGAAATTTGGCTGGGAATATAATCAACA  
AGTGAGGCACAACCTGGGAGACAATGACAAAAGCGATTGAGAACCACATCAGCTCTCTAACTGGGGCTACAGGTT  
GTCTCTGAGGGAAGGGCTGTGGCCTATGTCAATTCCTATGGAGAATTTGTTGAACATCATAAAATAAAGGCAAC  
CAATAAAAAAGGACAGGAGACTTATTATACTGCTGCACAGTTTGTATAGCAACGGGTGAAAGGCCACGGTATTT  
AGGAATCCAAGGAGATAAAGAATACTGTATTACTAGTGATGACCTTTTTCTCTGCCTTATTGCCCTGGCAAAAC  
ATTAGTGGTGGGTGCCCTCTTATGTTGCCCTGGAGTGTGACGGGTTTCTGGCTGGCTTTGGCCTAGATGTCACAGT  
TATGGTACGCTCAATCCTTCTCCGTGGCTTCGACCAAGAAATGGCAGAAAAAGTGGGTTCTTACATGGAGCAGCA  
TGGTGTGAAGTTCCTACGGAAATTCATACCTGTGATGGTTCAACAGTTGGAGAAAGGTTACCTGGAAAGCTGAA  
AGTGTGGCTAAATCCACTGAAGGAACAGAAACAATTGAAGGAGTCTATAACACAGTTTTGTTAGCTATTGGTCG  
TGACTCCTGTACAAGGAAATAGGCTTGGAGAAGATTGGTGTCAAAATTAATGAGAAGAGTGGAAAAATACCTGT  
AAATGATGTGGAACAGACCAATGTGCCATATGTCTATGCTGTTGGTGATATTTTGGAGGATAAGCCAGAGCTCAC  
TCCTGTGCGCCATACAGTCAGGCAAGCTGCTAGCTCAGAGACTTTTTGGGGCCTCTTTAGAAAAGTGTGATTATAT  
TAATGTTCCGACTACAGTGTCTTACTCCTCTGGAGTATGGTTGCTGTGGATTATCTGAAGAGAAAGCTATTGAAGT  
ATATAAAAAAGAGAATCTAGAAATATATCATACTTTGTTCTGGCCTCTTGAATGGACAGTAGCTGGCAGAGAGAA  
CAACACTTGTATGCAAAGATAATCTGCAATAAATTCGACCATGATCGGGTGATAGGATTTTCATATTCTTGGACC  
AAACGCCGGTGAGGTTACCCAAGGATTTGCAGCTGCAATGAAATGTGGGCTCACAAAACAGCTACTTGATGACAC  
CATTGGAATTCACCCACATGTGGGGAGGTGTTACGACTTTGGAAATCACAAAGTCGTCAGGACTAGACATCAC  
TCAGAAAGGCTGCTGAGGCTAGGCCTGCTGCTGTTTAGTTCTCCTTGTCATATTCTCATTTCTCTCAAAGATAAG  
AATGCTCTCGGATAAAATGAGCCTGTGCTCATGACAGCTGCTCTGTTACTCAGGGACCAGTGACAGGCTGTCTTA  
CGACACTTAGATGAGAAAGTAGACAAGGAAAGAGGACAGCAGTGGGCATCTGCCTTGTGGTCTTGCTGACAGCGA  
GAAGCAGTGGGACTGCTTCCTTGACGCCTTAGCTTGGAGCCCCGTTATGAGGTGAGCCAAGGCTGACTCTCGCAA  
GCCAGGACTGAGCTTCCCTCGGAAAGACCTTTGAGTGGCACCATTACCTAAGTTAGCTTTTCTGGTCGCTATTG  
TTTTTATCCCCITTGCTTTGTTGTTTCTGTGAAAATATATTTTCAGTTAAGAAATGCTATAAAGTAGTGGTTTTCT  
TAGTGCGTGGGCCTAGAATTCACACATGCTCACTGGTGAACAGTGTCTGTGGGCTGCTGTGGGCTGCATTTGGAT  
AGCTGTCTGCATTAGCAGGAAGCTGTACACACTGTGTAGGGTTAGTCATCTCTTTTCTTTTTTGAGGCACATTTA  
ACCTACTGTCAAAACGCTGACTCATGCTTCACCCCTCACACTCACTACTTGGTGGTGATAACCTTGAAGCTATTCT  
CCCCAATTAATATCTCGAGACTGAGCAAAATATCTCATGTAAGATAAAAGTACTTGAATTGCTTTTTTCATGTTCT  
ATCTTAATAGTATTATTTCCAAAAGTTTTTAATACTGTATTATGTGAAATCTAACTAATTTATCTGTGAAATAAT  
TCCATCACAGTCTGTTTAATGATGATAAAGTTCCATAAATGAATACAGGT

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**FIGURE 1238A**

AGCGATCCGAGGCCCGGCCCCGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCGCGGGCTAGCACTGACGTGT  
CTCTCGGCGGAGCTGCTGTGTCAGTGGAACGCGCTGGGCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC  
TGAAGCGGGACCCGGAGCCCGAGCAGCCGCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT  
CATCTGCGGAAATTCAGAAGCCAGAGAGGAAGATTCAAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCT  
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCAAGTACCCCTTTCTATTG  
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACGTCTGGCCT  
TATAATGCAACTCTTGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCAAAAGACCGAGCTCTCTTCAACGG  
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGATGTGATGACCGGGATGTATGGGGA  
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTCAAGCTCTTTGTTGCTGGCTTAATTGTCCTACT  
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTCAATTGCAACTAACATCTGTGA  
AACCATCGTATGGAAGGCATTCAAGCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT  
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT  
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCACTGGTCACTATTTCCAGGGCTTCCGAGTGGGA  
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT  
CCCCATCATCTGTCAGTCTGCCCTGGTGTCCAACCTTTATGTCTCTCCCAAATGCTCTCAGCTCGCTTCAGTGG  
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCCGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG  
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA  
CATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA  
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA  
CCGGTACATCCCCACAGCCGCGGCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCCCTGGCTGACTTCCTAGG  
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA  
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGGACAGGTTGAGGAAGCTGCTCCA  
GAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA  
TTTCGTATTCTTTTCACTTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGCTTTTTATCCTGGCAC  
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTAGCCGACTGCCAGAGAAGTGGAATGGTATAGGATTGTCCC  
CAAGTGTCATGTAACCTTTTGTTTTAACTTTTGACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCACCTGT  
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCAATTTTGGCAGTAG  
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCAACATCAGG  
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTTAAGACACCATGTTTTCCCTTATTTTAAAGTGATTTTTTT  
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTTGTCTGT  
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG  
TCCACTTGGGTCATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAAGTATGTCCGTT  
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT  
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT  
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT  
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCCGGGTGCATGGGCTGTGGTG  
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA  
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTTGGCCTTTAGGGAGTCCCCCTCTTAGGACAGGCACTGCC  
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTTCAGCTGGCTTTAGACATTGGT  
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTGGGGGAGA  
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT  
CTGGAGACCTTGGTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTTAAAGCCACC  
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCAGGGCTTACCACCCTATCACACG  
TGGCCTTGTCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCCACATGGTTCTC  
CCACTGCCCTGTCTGCTCTGCTGTACAGAGGGGGCAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGCTCTG  
GCAGGCAGGACAGTGTACCCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCCTCAGGAGGAGCCCCATAGTC  
CCGCTGACAGCCTGTAACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG  
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA

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**FIGURE 1238B**

ATAAGTGACAAATAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1239**

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGT  
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL  
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD  
KVRALREAFYRQNLPLNLMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIP IILQSALVSN  
LYVISQMLSARFSGNLLVSLTWSDTSSGGPARAYPVGGLCYYLSPPESFGSVLEDPVHAVVYIVFMLGSCAFF  
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA  
VTIIYQYFEIFVKEQSEVGSMGALLF

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**FIGURE 1240**

ATGAAGATTGAGGAGGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCCACAGCCACGTGAAAGGGCTGGGG  
CTGGACGAGAGCGGCTTGGCCAAGCAGGCGGCCTCAGGGCTTGTGGGCCAGGAGAACGCGCGAGAGGTGTGGCCA  
GTGGACCAGGGAGTTGGGGGCTGCAAGCAGGGCTGCTGCGGCGAGAGAGCTGCTGAAGTCGGGCCTGCAGGTGCT  
CCAGGTCAGCGGGCGACTTTGGCCGCTGCAGAGACCGAGATACGCGGGGTAACAGCCCGTTCCGGAGCCGGTCAT  
CAGGCGCCAAGCCCCGCTGGGCTCCTCGCAGCCGCGGGACCTTTCTCCGCCCTTCCCGAGGCTGAGTTTCCTGAA  
CGGGAAGCTGCCGGCCCGCGGGGAGCCGGGAGCAGCCAGGGCGTGAGGACGTGGGTTCCCGTCACCCCCGGCTT  
GGAACAGCAGCGCCGCAACAACCGCTGGCGTTTCATCGAGCCTCTCAGCAGCCCTGCGAGGCGATCCCGGGGAGAA  
TCCCACGCCACAGCCGAGGAACTGAGGCAGGCAGGGTGACACACAGCCCAGTAGTGCGGGGCGGGCGCCAGGC  
TGCCACCGCGCTGAGGACCGGCCCTCTGCCAGCCGGGAGGCGTGGGGCAGGACAGCCGCGCTCTCGCCAGGGCC  
CAGAGCCCCACTTTGCCAAGGAGCTGTGCTGGAGCGGTGACTTTGTTTCAGGGCCGAGAACCGGAGGAGGAGGCC  
AGACTTGCTGCTGGGCAGCTGGCACATGGGACATGGGGTGTTATGACTCCAGCATTTATGGAGCGCCTGCTGTGT  
GCTCTGCAGGTGAGCAATGTGAGGCTCAGAGAAGAGAAACAGAAAGCCCGGAGGCTTGAGTGGGTGAGACACCCA  
TCAGGAGCTTGGCATGAGTATGACAGCTCCTTGACGCAAAGTCCAGGGGGCATGAGTGCTGGGGCCATTGCAGGC  
ACCAGGACCCAAGCCTAG

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**FIGURE 1241**

MVDRLRPVKFPLLMGQPEAQGPAGAPGQRATLAAAETEIRGVTARSGAGHQAPSPAGLLAAAGPFSALPEAE  
FPEREAAGPRGSREQPGREDVGSRHPRLGTAAPQQPLAFIEPLSSPARRSRGESHATAEETEAGRVTHSPVVAGG  
RPGCHRAEDRPLCQPGGVGQDSRALARAQSPTLPRSCRWSGDFVQGREPEEEARLAAGQLAHGTWGVMTPAFMER  
LLCALQVSNVRLREEKQKARRLEWVRHPSGAWHEYDSSLTQSPGGMSAGAIAGTRTQA



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**FIGURE 1242**

AGGTAAAGGGAGAAGATGAGGAAGAGAACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAAGTGGGAGAT  
TCTTCACAGTCAAGCTCCCAGTTGCTCTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAACAGTCTACACCC  
ATGTGCTTCATCCATATCCAACCCAGATCACCCAGTCAGAGAAAACAGTTTGTGGTGTGTTGAGGGGAACCATTATT  
TCTACTCTCCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCA  
AGCTGGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCCTTTCAGAGATGTGCCTGCCTATAGTCAGG  
ATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCTTGACCATCACCAGCATGACCCGAGTCATTGAAGTCT  
CTCACTGGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCCTTTCT  
CACGCTATGATTACCAGAGACAGCCAGATAGTGGAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTG  
CTGCCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTG  
TAGAGATGGAAATCCGGCCTCGCTTCCCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCC  
CAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATG  
AACAAGTGATAGATTCTCTGACTGTGAAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCT  
ATGAAATCAGCCGTGCCCCAGATGAGCTGCACTACACCTATCTGGATACATTTGGCCGCCCTGTGATTGTTGCCT  
ACAAGAAAAATCTGGTAGAACAGCACATTTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGC  
AGGAGCCCCTGCTGGTGGTGGCGGCCTTCTACATCCTGTTCTTCACCGTTATCATCTATGTTGCGCTGGACTTCT  
CCATCACCAAGGATCCAGCCGCAGAAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCA  
ACAAGAGAATAGGCCTTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCC  
TCAACAGTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGC  
TGAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGG  
TGCTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGA  
AGCTCATCTCAGGAAAGCGCCAGGAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCTGCCCCG  
CATCCTCCAGGGGGCCCAGGGTGCCTGCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATG  
GAGGCCAGTGAAAGCTGACATCTGTAAAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGT  
TTGCCGTTTGTCTTAACCTTTCTTTTTTTTTTTTTTTTTTAAAAAAGAAAACCTTTAAAAAACTCCCATTA AAAACA  
AAACATCTTTGTGTTTTGAACAAAGGAATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAGGATATTTTT  
CAGCCTATAAAGCCCCCTGTTTTATGCCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTT  
TTTTTTTTTTTTTAAAGCGTGTGTGAACAAATGGAAATAAAGCAGGGACTGTG

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**FIGURE 1243**

CTGCTCTTCCCGGTCATGGAGGCGCCAGCCGCCGGCTTGTTTCTGCTCCTGTTGCTTGGGACTTGGGCCCCGGCG  
CCGGGCAGCGCCTCCTCCGAGGCACCGCCGCTGATCAATGAGGACGTGAAGCGCACAGTGAGACCTAAGCAGCCAC  
CTGGCTAAGGTGACGGCCGAGGTGGTCCTGGCGCACCTGGGCGGCGGCTCCACGTCCCCGAGCTACCTCTTTCCCTG  
CTGGCTTTGGAGCCTGAGCTCGAGGCCCGGCTGGCGCACCTGGGCGTGACAGGTAAAGGGAGAAGATGAGGAAGAG  
AACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAGTGGGAGATTCTTCACAGTCAAGCTCCCAGTTGCT  
CTTGATCCTGGGGCCAAGATTTAGTTCATTGTGGAACAGTCTACACCCATGTGCTTCATCCGTATCCAACCCAG  
ATCACCCAGTCAGAGAAACAGTTTGTGGTGTGTTGAGGGGAACATTATTTCTACTCTCCCTATCCAACGAAGACA  
CAAACCATGCGTGTGAAGCTTGCCCTCTCGAAATGTGGAGAGCTACACCAAGCTGGGGAACCCACGCGCTCTGAG  
GACCTACTGGATTATGGGCCTTTTCAGAGATGTGCCTGCCTATAGTCAGGATACTTTTAAAGTACATTATGAGAAC  
AACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCTCTCACTGGGGTAATATTGCTGTGGAA  
GAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCTTTCTCACGCTATGATTACCAGAGACAGCCA  
GATAGTGGAAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTGCTGCCAGGATGTTTATTACCGGGAT  
GAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGCTTC  
CCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCCCAAGCTATGAGTACCTCTATAATTTG  
GGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATGAACAAGTGATAGATTCTCTGACTGTG  
AAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAG  
CTGCACTACACCTATCTGGACACATTTGGCCGCCCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC  
ATTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCTGCTGGTGGTGGCGGCC  
TTCTACATCCTGTTCTTACCCTTATCATCTATGTTCCGGCTGGACTTCTCCATCACCAAGGATCCAGCCGCAGAA  
GCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCCTGGTCAACAAGAGAATAGGCCTTTACCGTCAC  
TTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCCTCAACAGTGGCAAGAAGAGCCTGGAG  
ACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGCTGAAGACAGAGGGCTCTGATCTGTGC  
GACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGGTGTGTAAGTTCGGCGGTGGAGGCTGAG  
CGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAG  
CTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCGCGCATCCTCCAGGGGGCCAGGGTGCCT  
GCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATGGAGGCCAGTGAAAGCTGACATCTGTA  
AAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGTTTGCCGTTTGTCTTAACCTTTCTTTT  
TTTTTTTTTTTTAAAAAAGAAAACCTTAAAAAACTCCCATTA AAAACAAAACATCTTTGTGTTTTGAACAAAGG  
AATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAAGATATTTTTCAGCCTATAAAGCCCCCTGTTTTATG  
CCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTTTTTTTTTTTTAAAGCGTGTGTGAACA  
AATGGAATAAAGCAGGGACTGTG

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**FIGURE 1244**

GTGAGCGCCAGGAAGGTAGCGAGGCCAGCGTCGCCCCGGGACTCGCTGCTCAAGTCTGTCTATTGCCTGCCGCCA  
CATCCATCCTAGCAGGGCCCCGTGCGCCACCAGGCGGACAAAAGCGGTCCGCTGAACACCATGCGGCCGCTCGGC  
GTGCCGCCAGGCTCTGCTGGTGAGCGCCGCCACCCCGCGCCCAGGTCCCGCGAGCCCGCCTGCCGCGCACCTCG  
CCCTGCTCCCAGCTCTACTCCAGGCCCCGTCCGCCCCGGGGCGCCGCCACCGCGCCTCGCTCGGGCCGTTGCCG  
TCTGCACCCAGACCCTGAGCCGCCGCCGCCGCCATGGAGGTGGCGCCCGAGCAGCCGCGCTGGATGGCGCACCC  
GGCCGTGCTGAATGCGCAGCACCCGACTCACACCACCCGGGCCTGGCGCACAACTACATGGAACCCGCGCAGCT  
GCTGCCTCCAGACGAGGTGGACGTCTTCTTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGC  
TCACGCGCGGGCGCGCGTCTCCTACAGCCCCGCGCAGCCCGCCTGACCGGAGGCCAGATGTGCCGCCACACTTG  
TTGCACAGCCCGGGTTTGCCCTGGCTGGACGGGGGCAAAGCAGCCCTCTCTGCCGCTGCGGCCACCACCACAAC  
CCCTGGACCGTGAGCCCCTTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCACTCTCT  
GTGTACCCAGGGGTGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACCCCTACAGCAGCC  
CACTCTGGCTCCCACTTTTCGGCTTCCCACCCACGCCACCCAAAGAAAGTGTCTCCTGACCCCTAGCACCACGGGG  
GCTGCGTCTCCAGCCTCATCTTCCGCGGGGGTAGTGCAGCCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAG  
GTGTCACTGACGGAGAGCATGAAGATGGAAGTGGCAGTCCCCTGCGCCAGGCCCTAGCTACTATGGGCACCCAG  
CCTGCTACACACCACCCCATCCCCACCTACCCCTCCTATGTGCCGGCGGGCTGCCACGACTACAGCAGCGGACTC  
TTCCACCCCGGAGGCTTCTTGGGGGGACCGGCCTCCAGCTTCAACCCCTAAGCAGCGCAGCAAGGCTCGTTCTGT  
TCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCCCTCTCTGGCGCGGGACGGCACCGGCCACTAC  
CTGTGCAATGCCTGTGGCCTCTACCACAAGATGAATGGGCAGAACCGACCACTCATCAAGCCCAAGCGAAGACTG  
TCGGCCGCCAGAAAGAGCCGGCACCTGTTGTGCAAATTGTGAGACGACAACCACCACCTTATGGCGCCGAAACGCC  
AACGGGGACCCCTGTCTGCAACGCCGTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCATGAAG  
AAGGAAGGGATCCAGACTCGGAACCGGAAGATGTCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGCTTC  
GAGGAGCTGTCAAAGTGATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCT  
GTGGGCCACCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCCTCCGACGCCCATCCACCCCTCCTCCAGC  
CTCTCCTTCGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCG  
GGCACTCCCGGGATGGGTGGACCAAACCTTAGCAGCCAGCATTTCCCGAAGGCCGACACCACTCCTGCCAGCC  
CGGCTCGGCCCAGCACCCCTCTCCTGGAGGGCGCCAGCAGCCTGCCAGCAGTTACTGTGAATGTTCCCCACCG  
CTGAGAGGCTGCCTCCGCACCTGACCGCTGCCAGGTGGGGTTTCTGTCATGGACAGTTGTTTGGAGAACAACAA  
GGACAACCTTTATGTAGAGAAAAGGAGGGGACGGGACAGACGAAGGCAACCATTTTTAGAAAGGAAAAGGATTAGG  
CAAAAATAATTTATTTTGTCTTGTCTTCTAACAAGGACTTGAGACTTGGTGGTCTGAGCTGTCCCAAGTCCTCC  
GGTTCTTCTCGGGATTGGCGGGTCCACTTGCCAGGGCTCTGGGGGCGAGATTGTGGGGACCTCAGCCTGCACCC  
TCTTCTCCTCTGGCTTCCCTCTCTGAAATAGCCGAACCTCCAGGCTGGGCTGAGCCAAAGCCAGAGTGGCCACGGC  
CCAGGGAGGGTGAGCTGGTGCCTGCTTTGACGGGCCAGGCCCTGGAGGGCAGAGACAATCACGGGCGGTCTCTGCA  
CAGATTCCCAGGCCAGGGCTGGGTACAGGAAGGAAACAACATTTTCTTGAAAGGGGAAACGTCTCCAGATCGC  
TCCCTTGGCTTTGAGGCCGAAGCTGCTGTGACTGTGTCCCTTACTGAGCGCAAGCCACAGCCTGTCTTGTCAGG  
TGGACCCTGTAAATACATCCTTTTTCTGTTAACCTTCAACCCCTCGCCTACTACTCTGAGAC

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**FIGURE 1245**

GTCAAAGTGCATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCTGTGGGCCA  
CCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCCACTCCGACGCCCATCCACCCCTCCTCCAGCCTCTCCTT  
CGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCGGGCACTCC  
CGGGATGGGTGGACCAACCCTTAGCAGCCCAGCATTTCGGAAGGCCGACACCACTCCTGCCAGCCCGGCTCGA  
CCCAGGGAGAGGCTGTGTCCCTGCTGGGGTCTCAGGTCCAGCTTTACTGTGGCTGTCTGGATCCTTCCCAAGGTA  
CAGCTGTATATAAACGTGTCCCGAGCTTAGATTCTGTATGCGGTGACGGCGGGGTGTGGTGGCCTGTGAGGGGCC  
CCTGGCCCAGGAGGAGGATTGTGCTGATGTAGTGACCAAGTGCAATATGGGCGGGCAGTCGCTGCAGGGAGCACC  
ACGGCCAGAAGTAACTTATTTTGTACTAGTGTCCGCATAAGAAAAAGAATCGGCAGTAT

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**FIGURE 1246**

GGCACGAGGATAAAGCCTGAGGCGGCGGCAGCGGCGGAGTTGGCGGCTTGGAGAGCTCGGGAGAGTTCCCTGGAA  
CCAGAACTTGGACCTTCTCGCTTCTGTCTCCGTTTAGTCTCCTCCTCGGCGGGAGCCCTCGCGACGCGCCCGGC  
CCGGAGCCCCCAGCGCAGCGGCCGCGTTTGAAGGATGACCTCTAGGAAGAAAGTGTTGCTGAAGGTTATCATCCT  
GGGAGATTCTGGAGTCGGAAGACATCACTCATGAACCAGTATGTGAATAAGAAATTCAGCAATCAGTACAAAGC  
CACAATAGGAGCTGACTTTCTGACCAAGGAGGTGATGGTGGATGACAGGCTAGTCACAATGCAGATATGGGACAC  
AGCAGGACAGGAACGGTTCCAGTCTCTCGGTGTGGCCTTCTACAGAGGTGCAGACTGCTGCGTTCTGGTATTTGA  
TGTGACTGCCCCCAACACATTCAAACCCCTAGATAGCTGGAGAGATGAGTTTCTCATCCAGGCCAGTCCCCGAGA  
TCCTGAAAACCTTCCCATTGTGTGTGGGAAACAAGATTGACCTCGAAAACAGACAAGTGGCCACAAAGCGGGC  
ACAGGCCTGGTGCTACAGCAAAAACAACATTCCCTACTTTGAGACCAGTGCCAAGGAGGCCATCAACGTGGAGCA  
GGCGTTCCAGACGATTGCACGGAATGCACTTAAGCAGGAAACGGAGGTGGAGCTGTACAACGAATTTCCCTGAACC  
TATCAAACCTGGACAAGAATGACCGGGCCAAGGCCTCGGCAGAAAGCTGCAGTTGCTGAGGGGGCAGTGAGAGTTG  
AGCACAGAGTCCCTTCAAAACCAAGAACACACGTAGGCCTTCAACACAATTCCCCTCTCCTCTTCCAAACAAAAC  
ATACATTGATCTCTCACATCCAGCTGCCAAAAGAAAACCCCATCAAACACAGTTACACCCACATATCTCGCACA  
CACACACACACACGCACACACACACACACAGATCTGACGTAATCAAACCTCCAGCCCTTGCCCGTGATGGCTCCTT  
GGGGTCTGCCTGCCACCCACATGAGCCCGCGAGTATGGCAGCAGGACAAGCCAGCGGTGGAAGTCATTCTGATA  
TGGAGTTGGCATTGGAAGCTTATTCTTTTTGTTCACTGGAGAGAGAGAGAACTGTTTACAGTTAATCTGTGTCTA  
ATTATCTGATTTTTTTTATTGGTCTTGTGGTCTTTTTACCCCCCTTCCCCTCCCTCCTTGAAGGCTACCCCTT  
GGGAAGGCTGGTGCCCATGCCCCATTACAGGCTCACACCCAGTCTGATCAGGCTGAGTTTTGTATGTATCTATC  
TGTTAATGCTTGTTACTTTTAACTAATCAGATCTTTTTACAGTATCCATTTATTATGTAATGCTTCTTAGAAAAG  
AATCTTATAGTACATGTTAATATATGCAACCAATTAAAATGTATAAATTAGTGTAATAAAAAAAAAAAAAAAAAA

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**FIGURE 1247**

MSFSSRPVPEILKTSHLLCWETRLTSKTDKWPQSGHRPGATAKTTFPTLRPVPRRPSTWSRRSRRLHGMHLRKR  
RWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRVLHKPRTHVGLQHNSPLLFTKHTLISHIQLPKENPI  
KHSYTPHISHTHTHTHTHTHRSDVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLER  
ERTVYS

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**FIGURE 1248**

AGAATCTTCAGTTTCTGTGAGCGTCCGCTTCGTCTGGGCACTTCCGGTACTCCCATTCAGTTCCGGTCCCTGTCT  
TTTACGTTTCCGGCAAAACATCAGTGTCGTGTGGGTAGTTGGAATCTTCAGTTCCTGTGAGCGTCGGCGTCTTCTG  
GGCCTGTGGAGTTTCTTGGACAGGGGCCGCGGGGCTCCAGGACGGCGCCCTTAGCGACACC**ATG**CCCCGAAATGC  
AGAAAAGGCCATGACGGCCTTAGCAAGATTTCGCCAGGCTCAGCTGGAAGAGGGAAAAGTGAAGGAACGAAGACC  
CTTCTGGCCTCAGAATGTACTGAACTGCCTAAAGCTGAGAAGTGGAGACGACAGATCATTGGAGAGATCTCTAA  
AAAAGTGGCTCAGATTCAGAATGCTGGTTTAGGTGAATTTTCAATTCGTGACCTGAATGATGAAATTAACAAGCT  
GCTAAGGGAGAAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCCCTGATTATGGAAGATTGGCCCTAA  
AATGCTGGATCATGAAGGAAAAGAAGTCCAGGAAACCGAGGTTACAAGTACTTTGGAGCAGCAAAAGATTTGCC  
TGGTGTTAGAGAGCTGTTTGAAAAAGAACCTCTTCCTCCTCCCAGAAAAGACACGTGCTGAGCTCATGAAGGCAAT  
CGATTTTGTAGTACTATGGTTACCTAGATGAAGATGATGGTGTTATTGTGCCTTTGGAAACAGGAATATGAAAAGAA  
ACTCAGAGCCGAGTTAGTGGAAGTGGAAAGCAGAGAGAGAGGGCTCGGCTGGCAAGAGGAGAAAAGGAAGAGGA  
GGAGGAAGAGGAGGAAGAGATCAACATCTATGCAGTCACCGAGGAGGAGTCGGACGAGGAAGGCAGCCAGGAGAA  
AGGAGGGGACGACAGCCAGCAGAAGTTCATTGCTCACGTCCCTGTTCCTCGCAGCAAGAGATTGAGGAGGCACT  
GGTGCGAAGGAAGAAAATGGAATCCTCCAGAAGTATGCAAGCGAGACCCTGCAGGCCCAAAGTGAAGAAGCCAG  
AAGGCTCCTGGGGTAT**TAG**GACCCAGCTGGGGCTCTCCTTGGAGTTCTTCCATCCCCCAGTGGTACCTCAGGACC  
CAGGGCTGCAGACACAGGCTGGTGCTGCAAGGGCTCCTGCCCCATTCTCAGCCTTCCTTCCCTCTCCTTGCTCTCA  
TGTTGACCGGAGGGTAGGGGTCTGTCCCTGGTCTTCTGGTAGGTTTGTACACATATTTTGCTACTGTGTGGAT  
CCATTTATTTTATTGTGGAGTGATACAACAGGTTGCGAACTGGCTGCCTGTGTCTTATTTTGACTTGCACTGC  
CATTTTGAGGGGAGAAGAATCAATTAGTGGCAAACATTTAAAAATGCAATTTTTTGAGACCAAAGTATAATTTT  
AAAAAATGCAATTTTCTAAAAGACACATCTCTTGAAAAATGAGATGATGTGGCCAGGCGCAGTGGCTCACGCCT  
GTAACCCACGACTTTGGGAGGCCGAGGCGGGCGGGTACGAGGTCAAGAGATGGAGACCATCCTGGCCAACATG  
GTGAAACCCCATGTCTACTAAAAATACAAAAAATTAGCTGGGCGTACTGGCATGCACCTGTAGTCCCAGCTGCT  
TGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGAGAGGTGGAGGTTGAAGTGAGCCAAGATCGTGCCATTGCAC  
TCCAGCCTGGCGACAGAGTGAGACTCTGTCCACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1249**

MARNAEKAMTALARFRQAQLEEGKVKERRPFLASECTELPKAEKWRRQIIGEISKKVAQIQNAGLGEFRIRDLND  
EINKLLREKGHWEVRIKELGGPDYGKVGPKMLDHEGKEVPGNRYKYFGAAKDLPGVRELFEKEPLPPPRKTRAE  
LMKAIDFEYYGYLDEDDGVIVPLEQEYKKLRAELVEKWKAEREARLARGEKEEEEEEEEEINIYAVTEESDEE  
GSQEKGGDSQQKFIAHVPVPSQQEIEEALVRRKKMELLQKYASETLQAQSEEARLLGY



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**FIGURE 1250**

GAATTCCAAACAGCCTCTACCTTGCGAGCCGTCTTCCCCAGGCCTGCGTCCGAGTCTCCGCCGCTGCGGGCCCGC  
TCCGACGCGGAAGATCTGACTGCAGCCATGAGCAGCAATGAGTGCTTCAAGTGTGGACGATCTGGCCACTGGGCC  
CGGGAATGTCCTACTGGTGGAGGCCGTGGTCGTGGAATGAGAAGCCGTGGCAGAGGTGGTTTTACCTCGGATAGA  
GGTTTCCAGTTTGTTTCCTCGTCTCTTCCAGATATTTGTTATCGCTGTGGTGAGTCTGGTCATCTTGCCAAGGAT  
TGTGATCTTCAGGAGGATGCCTGCTATAACTGCGGTAGAGGTGGCCACATTGCCAAGGACTGCAAGGAGCCCAAG  
AGAGAGCGAGAGCAATGCTGCTACAACGTGGCAAACCAGGCCATCTGGCTCGTGACTGCGACCATGCAGATGAG  
CAGAAATGCTATTCTTGTGGAGAATTCGGACACATTCAAAAAGACTGCACCAAAGTGAAGTGCTATAGGTGTGGT  
GAAACTGGTCATGTAGCCATCAACTGCAGCAAGACAAGTGAAGTCAACTGTTACCGCTGTGGCGAGTCAGGGCAC  
CTTGACGCGGAATGCACAATTGAGGCTACAGCCTAATTATTTTCCTTTGTGCGCCCTCCTTTTTCTGATTGATGG  
TTGTATTATTTCTCTGAATCCTCTTCACTGGCCAAAGGTTGGCAGATAGAGGCAACTCCCAGGCCAGTGAGCTT  
TACTTGCCGTGTAAAAGGAGGAAAGGGGTGGAAAAAACCGACTTTTCTGCATTTAACTACAAAAAAGTTTATGT  
TTAGTTTGGTAGAGGTGTTATGTATAATGCTTTGTTAAAGAACCCCTTTCCGTGCCACTGGTGAATAGGGATTG  
ATGAATGGGAAGAGTTGAGTCAGACCAGTAAGCCCGTCCTGGGTTCCCTTGAACATGTTCCCATGTAGGAGGTAAA  
ACCAATTCTGGAAGTGTCTATGAACTTCCATAAATAACTTTAATTTTAGTATAATGATGGTCTTGGATTGTCTGA  
CCTCAGTAGCTATTAAATAACATCAAGTAACATCTGTATCAGGCCCTACATAGAACATACAGTTGAGTGGGAGTA  
AACAAAAAGATAAACATGCGTGTTAATGGCTGTTGAGAGAAAATCGGAATAAAAGCCTAAACAGGAACAACCTTCA  
TCACAGTGTTGATGTTGGACACATAGATGGTGATGGCAAAGGTTTGAACACATTATTTTCAAAGACTAAATCTA  
AAACCCAGAGTAAACATCAATGCTCAGAGTTAGCATAATTTGGAGCTATTTCAGGAATTGCAGAGAAATGCATTTT  
CACAGAAATCAAGATGTTATTTTGTATACTATATCACTTAGACAACCTGTGTTTCATTGCTGTAATCAGTTTTT  
AAAAGTCAGATGGAAAGAGCAACTGAAGTCCTAGAAAATAGAAATGTAATTTTAACTATTCCAATAAAGCTGGA

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**FIGURE 1251**

MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGESGHLAKDCDLQEDACY  
NCGRGGHIAKDCKEPREREQCCYNCCKPGHLARDCDHADEQKCYSCGEFGHIQKDCTKVKCYRCGETGHVAINC  
SKTSEVNCYRCGESGHLARECTIEATA

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**FIGURE 1252**

CATGGCTGCCCTCAGATCCCTTGTGAAGCCCAAGATCGTCAAAAAGAGAACCAAGAAATTCATCCGGCACCAGTC  
AGACCGATATGTCAAAATCAAGATGAGAAGAATAATGTCTGGGGTGAAGGTGAAGCACCCAGCCCAAGACTCAGC  
AGCCAGGAAGTGGCCCAGCGCTCTTTATACCACGGGTGCAGGAATTCACACAGAAAAGTGGAGGCCAAGGCGTGA  
GAATTCCTCAATGACTGCCCTCTAAAGGAAGAGGACCAGGCTTCCTGTCAGAGACTGAGGACCCAGGAAGAAACA  
TGTCTCGGCCCCGTGTCCCCCTCCACAATTCAGAGGCCACATTCTAACAGGGGAGGCTGACCAATTAAACAGATAA  
TGACACCTCCTAGAGCTAAGAGCTCTCCGACTATGAACCAGATGCCTGGAGAACACGGATGAATGGTCTGAGCAT  
GAGCAGGGGTGGGAGGCAGCGTTAAGGGAGGCATCAGAGTCAGAACCTAGCAAACAAGTGTGTTGTGAAGAAGAAT  
TCATAGAAAAGGGCAATGCGGGCATCACATGGGCTAAGGAACAGAGGGGTAGCAGTAGCTGTTGTGCCAAGCTGC  
AGGTGTTATACACTACCCTCTAGATCTGGGTTTTCTTAAACACCTTGAGAGGACAACCCTGCAAAGCACGGCAC  
AGTGGCCGAGAGGGAAAGGAGCATTGAGGTCTCAGTCCTCGCTCTGAGCCTACTTCTCTGCTTCTGGGCTCCAG  
CCATCTTTGTGGAAAGGGGGCTGCTAGTGACACCTCTCAAGGGTCTTTCCAGCTCTAGGTGCGGCTGTGCTGGAG  
TCTAGGATTTGCCACTGAGAAATCTGTTTCCAAGTTCCTTCAACCTGATGCATCCTGCAGCATCACGGCAGCTG  
TTCAGAGTGGTCAGAAGGCCCTGAATGAGCTCAGTAGAGGGAAGCCTGGGAACAGGGAGGCACCTGCAGCTCTA  
CTCATGGCCTGGCCAGAGCTCAGCAGCTCTTCTCTGCCATCTAGTGGGGATGGCATAACCATCACTGGGGACCACC  
CTGTGCAAACGGTGAGCCTGAGTGCCTGTCACAGAGGGAAAGAAAGGGGGGGGATACAGGATTTAGATGAAATA  
GCAACTCCTACCCTATTGTCAAAATCATCCAGCTTTTTCAAAACATCATATTGTACTGATTTTTTTGTGTTTTTG  
ACAGAGTCTTGCTGTGTACCAAGGCTGGAATGCAGTGGCATGATCTCGGCTCACTGTAGCCTCTGTCTCCCTGG  
TTCAAGCAATTCTGCCCCAGCCTCCAAGTAGCTGGGACTACAGGCATGCGCCACCACACCCAGCTAAGTTTTGT  
ATTTTTTTAGTAGAGTCAGGGTTTTACTTTGGCCAGGCTGGTCTTAACTCCTGGCCTCAACTGATCTGCCTGTC  
TCGGCCTCCCAAAGAACTGGGATTACAGGCATGAGGCACCGTGCCTGTCCCATGTTGTACTTAATAGATATTTAC  
CATATACAATTATTTTTTAATTTAAATAAATCAATGAACAGTGTTATTTTTT

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**FIGURE 1253**

MHPAASRQLFRVRRPLNELSRGKPGNREAPAALLMAWPELSSSSLPSSGDGIPSLGTTLCCLVSLSACHRGKER  
GGIQDLDEIATPTLLSKSSSFFKTSYCTDFFVFLTESCCVTKAGMQWHDLSL

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**FIGURE 1254**

GGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCTTCCCGGGCTAATC  
CATGCCGGGTGGAGGCTGCTGACGCAGGTCGGCGCCCAGGTGCTGGGTCGACTCGGGGACGGCCTGGGTGCTGC  
CCTGGGCCCCGGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAGTGGTACATGGTGGGA  
TGAGCATCTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAGCCCAATTAGCAAG  
TAAACTGTGTCCTCTGAAAGATGAACCATGGCCTATACATCCTTGGGAACCAGGTTCCCTTTAGAGTTGGTCTTAT  
TGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAAAGCATGTGGTCACATTACTTCAGGTACA  
AGACTGTGTCATGTCTTAAATATACGTCAAAGGAAAATGTAATGGAAAATGGCAACCCTGTCTGTAGGAGGAAA  
AACTGTATCACGTTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAACCTGGATTGCCGCCGAAACAGAC  
AGTTAAAAATCTTTAATATAACAGATAATGCTGCAATTAACCAGGCACTCCTCTTTATGCTGCTCACTTTTCGTCC  
TCGACAGTATGTGGATGTCACAGCCAAATCGTAGTGGTAAAGGTTTTCAAGGTGTCATGAAAAGATGGGGATTTA  
AAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTGGTGATATTGGCA  
GAGTCTGGCCTGGAACATAAATGCCTGGAAAAATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGA  
GAATAAACACAAAGCACAAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAATTGCTTAGTAAAGGTCA  
AAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCTTACATATTTTCCTGATGGAGATG  
AAGAGGAACTGCCAGAAGATTTGTATGATGAAAACGTGTGTCAGCCCGGTGCGCCTTCTATTACATTTGCCTAAC  
ATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATAACCACCAGAAAT  
CATACTCTCCTTTCTTAGTCACAACAAAATCACACATGTCATCTTTGTCAAGGGCATAAATATATCATTTCATACC  
CCCATTAATTTTTGTTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTTGCTGAAATTGGTGT  
TGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCAAGTTATCTTAAG  
ATGTCTGTAAATTTAACTTTTATTAAAGTTTTGTCAATCTTTGTGAATAGTGGTTGTGGAACAGTAGAAAACCAT  
ATGGGGACTATAGTGAACCTATTTGGGTAAAGAAACCATTTGCTAAAATGGAGAAAGTAAATAGATTTTTATTT  
AAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATC

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**FIGURE 1255**

ATGATGACAGTAGGAGTTGAGTGGAGGAGATGGCAAGTTGAGCGGAGGAGGTGGCAGTGGGGCCCCAGATCAGGT  
GCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCTGAGGGTCCTAGCTGCCTTCCTTAGGCGT  
GGTGAGGCTGCTGGGTCTCCTGTTCCAAATCCACCTAGAAGCCATGCCCAAGAAGAGCCAACAGACTTCCTGAGC  
CGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCCCTCTGAGTCCCCTCGGCCTTGGTCTCTG  
CCCATCCGCCCCTGCTATGGAGCCCCTGGCCCTGGCCATGGAGCTGAGCCGGCGCGTGGCCGAGCTGGGGGACAC  
CCGGGCCGGACTCAGCGTAGAGCACGCGCACAGCCTCACGCCCTGGATCCAGGCCACGGGGGCCGGCTCCACTG  
CGTTCGTTCTGTGGTGAGCCCTTGCTGTATGCCCGGACTGCAGCCATGAGTGTGGACGCTATGCCTGGCGTCAAT  
GACTGGGTACGCTAA

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**FIGURE 1256A**

GAGGTCAGACCGGTTGCTTTCCCGGGAGTTCGGCGTTTGGCTGGGGCTGCAGCAGCTGAAGTGTAAGTGTGTTTTCTTG  
GGACTGGCGGTCTGCACTTCTCTCCCGGGTTCATCTCCCCCGCCCGGTGGTGAGGCCCTCGAGGAGGGCTCGG  
ACGGGTGTAGCGATCCGCGCTAGAGGAAGACGAGGCCCGGGAACGCATGTCCCCAGGGCAGGTTAGGGGGCTGG  
AGGGGTCAAATCCCGGGGTACTTGTGGAGACTCTTTAGCGTGGCTTCTTCTCTCTGCTGAGACCCCGAGAGCTTT  
CCCAGTTCTCCTCCCAGGACCACCGGGGTTCCCTGAAGATCGGGACTTTTCTGCGCCCTCCACCAACAGCCCATC  
TCCTGTCTATGAAGAAAGACCCTTCGTAGAAACAACTTCCCCGCTGCTGACGCGTTTTTCCCGTCCCGTCCCGAA  
GTAGTCTACTATGACCTCGTTGTGAGCCTCTGAACGATTTTGACACTTTCCCGAGGCCTAGGGTATTATATCCTA  
ACCTTACTAAAGACCACAGAGGTGCTTGCCATTATGGGAAATCAGCTTGCTGGCATTGCTCCCTCCCAGATCCTT  
TCTGTAGAGAGTTATTTTTCAGATATTCATGACTTTGAATATGATAAAAGCCTGGGGAGTACTCGGTTTTTTAAA  
GTTGCTCGAGCCAAGCACCGAGAAGGCCTGGTCTGTGTAAGGTTTTTGCAATTCAGGATCCACATTGCCTTTA  
ACCAGCTATAAAACAAGAGCTGGAGGAACTGAAAATCAGGCTTAATTCCTGCACAGAATTGTCTACCTTCCAGAAA  
GCATCAGAAAAAGCATCTGAGAAAGCAGCTATGCTCTTTAGGCAGTATGTGCGAGACAATCTCTATGATCGCATC  
AGTACCCGCTCATTCTTGAATAACATTGAGAAGCGCTGGATTGCTTTCCAGATCCTGACAGCTGTGGACCAAGCA  
CACAAATCTGGAGTTTCGTTCATGGGGACATCAAGACTGAGAATGTGATGGTCACCAGTTGGAATTGGGTTCTTCTA  
ACTGATTTTGCCAGTTTTTAAGCCCACTTATCTTCCAGAAGACAACCCGGCAGATTTCAATTATTTCTTTGACACA  
TCACGGAGGAGAACTTGCTATATTGCTCCTGAACGTTTTGTTGATGGTGGGATGTTTGCCACTGAGTTAGAATAT  
ATGAGAGATCCTTCAACTCCGCTTGTAGACTTAAATAGCAATCAGAGAACAAGAGGAGAGTTGAAGAGAGCAATG  
GACATCTTTTTCAGCAGGTTGTGTGATAGCTGAGCTTTTTACAGAAGGTGTACCATTATTTGATCTCTCTCAACTT  
TTGGCTTATAGAAATGGACATTTTTTCCCTGAACAAGTGCTAAATAAAATTGAAGATCACAGTATCAGAGAATTG  
GTAATCAGATGATTCACCGTGAGCCAGATAAACGTTTAGAGGCAGAAGATTACTTAAACAGCAGCGTGGCAAT  
GCCTTTTCTGAAATATTTTTACACTTTTTCTTCAGCCCTACATGGCCCAAGTTTGCCAAGGAAACGTTTCTTTCTGCA  
GATGAGCGTATTCTGGTTATACGGAAGGATTTGGGCAACATTATTCACAATCTCTGTGGACATGATCTGCCAGAA  
AAAGCCGAAGGAGAGCCTAAGGAAAATGGGCTGGTTATCTTGGTATCTGTTATAACATCCTGCCTACAGACCCTT  
AAATACTGTGATTCCAACTAGCTGCTTTGGAAGTATTCTTCATTTGGCTCCAAGATTAAGTGTGAAATCCTT  
TTGGATCGTATTACTCCATATCTTTTGCAATTCAGCAATGACTCTGTTCCCTAGGGTGAGGGCTGAAGCCTTGAGG  
ACGTTGACCAAAGTTCTTGCTCTCGTCAAAGAGGTTCCCTCGTAATGATATCAATATTTATCCGGAATACATTCTG  
CCAGGCATAGCCCACTTAGCCCAAGATGATGCTACTATCGTTAGACTAGCCTATGCTGAAAACATAGCTCTGCTG  
GCAGAAACAGCTCTGAGATTCTTGGAATTAGTACAGTTAAAAAATCTTAATATGGAATGACCCCAATAATGAA  
GAAATAGATGAGGTTACACATCCAAATGGAATTTATGACACAGAGCTCCAAGCCTTACATGAAATGGTCCAGCAG  
AAAGTTGTTACTTTGCTAAGTGACCCTGAAAATATTGTAACAACCTTGATGGAATGGAATAACACGGCTG  
TGTGTATTCTTTGGACGTCAGAAAGCCAACGATGTTTTGTTGTCCACATGATTACTTTCTAAATGATAAGAA  
GATTGGCATCTACGTGGAGCATTTTTTGATAGTATAGTTGGTGTGCTGCCTATGTTGGCTGGCAAAGCTCCTCA  
ATTCTCAAGCCTCTGCTGCAACAAGGTCTTAGTGATGCTGAGGAATTTGTCATTGTGAAAGCTCTTTATGCCCTT  
ACTTGATGTGCCAGTTAGGACTGCTACAAAAACCCCATGTTTACGAATTTGCCAGTGATATTGCCCCCTTCTG  
TGTCATCCCAATTTATGGATACGTTATGGTGCCGTGGGATTTATCACAGTGGTAGCTCGTCAAATAAGTACAGCT  
GATGTCTACTGTAACTGATGCCTTATCTTGACCCATATATTACCCAACCAATAATACAGATTGAAAGAAAATCT  
GTTCTGCTCAGTGTTTTAAAGGAACCAGTAAGTCGTTCTATATTTGATTATGCTTTGAGGTCTAAAGATATTACT  
AGCTTGTTTCAGACATCTTCACATGCGTCAGAAGAAACGAAATGGTTCTTCCCGACTGCCCTCCGCCAGAGGAT  
CCTGCCATAGCACAGCTTCTGAAGAAGTTGCTCTCACAGGGAATGACAGAGGAAGAGGAAGACAAACTTCTGGCA  
CTGAAAGACTTCATGATGAAATCTAATAAAGCAAAGGCCAATATAGTGGACCAGAGCCATCTTCATGATAGTAGT  
CAGAAAGGTGTAATTGACTTGGCAGCTTTAGGCATAACTGGGAGACAAGTTGATCTTGTTAAACCAAACAAGAA  
CCAGATGACAAACGGGCCAGAAAACATGTAAACAAGACTCAAATGTAAATGAAGAATGGAAGAGCATGTTTGGG  
TCACTGGACCCACCAAACATGCCACAGGCCCTACCTAAAGGGAGTGATCAGGAGGTGATTGAGCTGGGAAACCT  
CCTCGTTCCGAGTCTCTGCTGGCATTGTGTCCCTTTGTCAACTCTTCACAGGTTCCAGAAGTGACAACCTGTC  
CAAAATAAAAAACAGTAATACCGGTTTTAAGTAGTACAATCTTACCATCCACCTATCAGATTGCAATTACAAC  
TGTAAGAACTGAACCTCAGCAACTCATCCAGCAAAAGCGGGAGCAGTGCAATGCTGAGAGAATAGCTAAGCAGATG  
ATGGAAAATGCTGAATGGGAGAGTAAACCACCACCTGGATGGCGTCTAAAGGGCTGTTAGTTGCCCATCTT  
CATGAGCATAAATCTGCTGTGAATCGAATTAGAGTCTCTGATGAACACTCACTTTTTGCAACATGTTCAAATGAT

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**FIGURE 1256B**

GGCACAGTGAAAAATCTGGAACAGTCAAAAGATGGAGGGGAAGACCACCACTACCAGATCTATTCTTACATACAGC  
CGAATTGGAGGACGAGTCAAGACGCTCACATTCTGCCAAGGCTCCCACTATTTAGCCATAGCATCTGATAATGGT  
GCTGTCCAGCTTCTTGGAATTGAGGCTTCTAAGCTGCCCAAGTCTCCTAAAATCCATCCTCTACAAAGCAGAATT  
CTAGATCAGAAGGAGGACGGTTGTGTTGTGGATATGCATCACTTCAACTCTGGAGCACAGTCTGTTCTTGCCAT  
GCCACTGTGAATGGCTCTCTGGTTGGCTGGGACCTTAGGTCTTCAAGCAATGCGTGGACTTTAAAGCATGATTTA  
AAGTCGGGGCCTCATCACTTCCTTTGCTGTGGACATCCACCAATGCTGGCTCTGCATTGGTACAAGCAGTGGTACC  
ATGGCTTGTGTTGGGACATGAGGTTCCAGTTGCCAATTTCAAGTCACTGTCACTCCTTCCAGGGCTCGAATCAGACGC  
CTCTCAATGCACCCCTCTGTATCAGTCTGGGTGATTGCAGCTGTTCAAGGGCAACAACGAAGTGTCCATGTGGGAC  
ATGGAGACTGGTGACAGAAGATTTACTCTCTGGGCCAGCAGTGCACCACCACTTTCTGAATTACAGCCTTCTCCT  
CATAGCGTCCATGGTATCTACTGTAGTCTGTCAGATGGAAATCCTATCCTACTAACAGCTGGCTCAGATATGAAA  
ATAAGGTTTTTGGGACTTGGCTTACCCAGAAAGGTCCATGTTGTTGCAGGAAGTACTAGTTCCCCATCTGTGTCC  
TACTACAGGAAAATAATTGAAGGCACTGAAGTTGTCCAGGAAATTCAGAATAAGCAGAAAGTAGGACCAAGTGAT  
GACACCCCTCGAAGGGGGCCAGAGTCCCTGCCCCTGGGACATCATGACATCATCACTGATGTGCGCCACATTCCAG  
ACCACACAGGGGCTTCATCGTAACTGCTTCTAGAGATGGGATTGTGAAGGTGTGGAAATTAAAACCTACTGATTGT  
ATAAATTTTAATAGTTATAAATATAATACTATAACTCGAGAAAAGGCATTTCTAGAGAACAGATTCAATTTGCTTA  
ATTTTCAAATTATGTCTCCATATTACTGTTTCATGACTGACTGACTAAATGACACCCAAAATGGTTAAGATGTA  
CTTGACTAGTTTACTTATGCATCTCTTTGCAAGAATCAGCCAGCCAACAATGTCTGGGATTTTTATTGTATATGT  
TATAGAGGTGAGAAATGTAAATATGAAAATGAATATGTTTATTTTGTATTGAAAAGATGGTTGAAAAGATGGT  
TGTAAGCTATTATAGTATAAACACATTTTTGCTATTAAAAATGCTATTCAAAGCAGTTAACTGT



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**FIGURE 1257**

MGNQLAGIAPSQILSVESYFSDIHDFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQEELEELK  
IRLNSAQNCPLPFQKASEKASEKAAMLFRQYVRDNLVDISTRPFLNNIEKRWIAFQILTAVDQAHKSGVRHGD IK  
TENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNFFDTSRRRTCXYIAPERFVDGGMFATELEYMRDPSTPLVDL  
NSNQRTGELKRAMDIFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNKIEDHSIRELVTQMIHREPK  
RLEAEDYLKQQRGNAPPEIFYTFLQPYMAQFAKETFLSADERILVIRKDLGNIHNLCGHDLPEKAEGEPKENGL  
VILVSVITSCLQTLKYCD SKLALELILHLAPRLSVEILLDRITPYLLHFSNDSVPRVRAEALRTLTKVLALVKE  
VPRNDINIYPEYILPGIAHLAQDDATIVRLAYAENIALLAETALRFLELVQLKNLNMENDPNNEEIDEVTHPNGN  
YDTELQALHEMVQKQVVTLLSDPENIVKQTLMEGITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDS  
IVGVAAYVGWQSSSILKPLLQQGLSDAEFVIVKALYALTCMCQLGLLQKPHVYEFASDIAPFLCHPNLWIRYGA  
VGFITVVARQISTADVCKLMPYLDPYITQPIIQIERKLVLLSVLKEPVSRISFDYALRSKDITSLFRHLHMRQK  
KRNGSLPDCPPPEDPAIAQLLKKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLALG  
ITGRQVDLVKTKQEPDDKRARKHVQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITQTKPPRSESSAGICV  
PLSTSSQVPEVTTVQNKKPVIPVLSSTILPSTYQIRITTCKTELQQLIQKREQCNAERIAKQMMENA EWESKPP  
PPGWRPKGLLV AHLHEHKS AVNRIRVSDEHSLFATCSNDGTVKIWNSQKMEGKTTTTRSILTYSRIGGRVKTLTF  
CQGSYLAIASDNGAVQLLGIEASKLPKSPKIHPLQSRILDQKEDGCVVDMHHFN SGAQSVLAYATVNGSLVGWD  
LRSSSNATLKHDLKSLG LITSFAVDIHQCWLCIGTSSGTMACWDMRFQLPIS SHCHPSRARIRRLSMHPLYQSWV  
IAAVQGNNEVSMWDMETGDRRFTLWASSAPPLSELQSPHVSVHGTYCSPADGNPILLTAGSDMKIRFWDLAYPER  
SYVVAGSTSSPSVSYRKII EGTEVVQEI QNKQKVGP SDDTPRRGPESLPVGHHDIIITDVATFQTTQGFIVTASR  
DGIVKVWK

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**FIGURE 1258A**

GGCCCTGCCTTCTCCATCAGACACCTGGGAATCACAGCTGGGGCCCCTGCTTTGGCCGTTTGTCTGCTGGAATC  
TGATGGAGGAAAGACGCTCTGAGAGAGTAATTAGACGCAGACAGAGATCTCTCTCCATAGTCAGAGGAGCCTAGC  
AGGGGCTGAAGGAACCTGCCTGAGGATGACAAAGAAGGGGATCCATGAACAAGGAGGTGCTAACAGGTTTCTCTGCT  
GATCTTGGCACTGACCGAAGCGCTGGCATTGTCATCCAGGAACCATCTCCCAGGGAATCTCTTCAGGTCTCTCCC  
TTCAGGCACTCCCCCGGGAACCATGGTGACAGCACCCACAGCTCTACCAGACATACTTCTGTGGTGATGCTGAC  
CCCCAATCCCGATGGACCCCCCTCACAGGCTGCAGCTCCCATGGCAACACCGACACCCCGTGCAGAGGGGCACCC  
TCCTACGCACACCATCTCCACCATCGCTGCGACAGTAACCGCCCCCATCTGAAAGCTCCCTGTCCACAGGGCC  
CGCTCCAGCAGCCATGGCAACCACATCTCCAAGCCAGAGGGCCGCCCTCGAGGGCAGGCTGCCCCCACCATCCT  
GCTGACAAAGCCACCGGGGGCCACCAGCCGCCCCACCACAGCGCCCCCCCCGCACTACCACACGCAGGCCCCCAG  
GCCCCAGGCTCTTCCCGAAAAGGGGCTGGTAATTCATCACGCCCTGTCCCGCTGCACCTGGTGGCCACTCCAG  
GAGTAAAGAAGGACAGCGAGGACGAAATCCAAGCTCCACACCTCTGGGGCAGAAGCGGCCCTGGGGAAAATCTT  
TCAGATCTACAAGGGCAACTTCACAGGCTGTGTGAACCGGAGCCCTCTACCCCTACCCCCAGGACCCCACTCTG  
GGGCTACTCTCTTACCACAGCCCCAGACAGTGGCTGCGACCACAGTGGCCAGCAATACCTCATGGGCACCCAC  
CACCACCTCCCTGGGGCCTGCAAAGGACAAGCCAGGCCTTCGCAGAGCAGCCAGGGGGGTGGTTCTACCTTCAC  
CAGCCAAGGAGGGACACCAGATGCCACAGCAGCCTCAGGTGCCCTGTGAGTCCACAAGCTGCCCCAGTGCCTTC  
TCAGCGCCCCCACCACGGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGCTTACTGTTACCCCTGGCAC  
CAGCAGACCTCTGTCTACCAGCTCTGGGGTCTTCACGGCTGCCACGGGGCCCCACCCAGCTGCCTTCGATACCAG  
TGTCTCAGCCCCCTTCCCAGGGGATTCTCAGGGAGCATCCACAACCCCAACAAGCTCCAACCCATCCCTCCAGGGT  
CTCAGAAAGCACTATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCCTCACCATGACCGACCGGGTGCCAGTCC  
TCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCCTGGTCCCCGCCGGGACCTGGAAGCCTGG  
GACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCGCAGCACAGAGCCACCATCTGCCTGAGCAAGAT  
GGATATCGCCTGGGTGATCCTGGCCATCAGCGTGCCCATCTCTCTGCTCTGTCTGCTGACGGTGTGCTGCAT  
GAAGAGGAAGAAGAAGACCGCCAACCCGGAGAACAACCTGAGCTACTGGAACAACACCATCACCATGGACTACTT  
CAACAGGCATGCTGTGGAGCTGCCAGGGAGATCCAGTCCCTTGAAACCTCTGAGGACCAGCTCTCAGAGCCCCG  
CTCCCCAGCCAATGGCGACTATAGAGACACTGGGATGGTCTTGTGTAACCCCTTCTGTCAAGAAACACTGTTTGT  
GGGAAACGATCAAGTATCTGAGATCTAACTACAGCAGGCATCACTTTGCCATTCCGTATTTTTCTGCTCTTAAATT  
ATAAATATACAAATACATATATTATAAATATAACCTTTGTGTAACCCCTGACTTAATGAGAAACATTTTCAGCTTT  
TTTTCTATGAATTGTCAACATCTTTTTTACAAGTGTGGTTTAAAAAAAAAAAAAACTTTACAGAAATGATCTGTG  
GCTTTATAAAATAAAGGTATTTCTAAGCAAAGCAGTTGCATTGATTGCTTCTCTTAATAACTATTTCTGAGCACC  
TGGGGATCCCAGGAACCCCTGGTCAGGTGAGGTAAGAGACTGACCTCCTGTAGAAGCTGAATGTTACAGTGCAAGC  
GCACGATTCTTTGAGTGATTCTTAAAGCTCTGGTTCCTCTTGATTGGTGTGACCCCATTTCCCTCCCTTCTCATA  
CGCACACCTGTAAAGGGAACCTGGACCGCCTCAGGGGAAGACGGCAGACTCATGCACAGAGAAGGAAAAGGGAACA  
TCTCATACCTCTGAGGATGAGTACCCTGGAGCCTTATGACGGCACCATTGGATGTCATGTTAATTCATCCAA  
GTTGTGGATGGCAGGCAGGAGCATGGAGCCCTCAGGAATCCATGGAGGACATCAAGGCATCCCAAGGCCATATTC  
CCCTAACATTACTTCCACTGCTAACAACAGGACTGCCTTTCCCTGGTGGGAAAATGCTCCCTTTATGCCCATTC  
TGTATCCCTCCAACACCCACATCTGCATTAAACACCCGTGCCTTTCTCTTGAGAGGGTTTAGATGCAGATCCC  
GGCCCTGGAGCTTTAAAATGCTTGCCCTTCTTCTCAAGGATCAAATGTTTATTGGGGTTACGCTTTGTTTTCT  
CAAAGGCCATGGTATCGTGCCCTGAGGAACATGTTTATCTAAGAAGCTTTGAGGTAGTAGAGCGATAATTTTT  
GAAACCTTCCCTCTGCAATCTTTAAAAAGAAAAAAGATTGCCCAAACAATCATTGAGGAGAACATCATT  
ATACTCCTACTTGGCACTGCAAACCTGCTCGCAGCACCAGCCGGTGGACTTGCCATCCAGCTCTCAGCTTCCACT  
GCTCCCTTGTTCGGCGCCGGCTGGCTGCCTCCCGTGCTGTGTCCAGCACGGCCAACAACGTCAGACCTCAGA  
GACGCCCAAGGGGCTTCAGAGGTGGCCGCTTCTCTATTTTTCTGATTGTGGCTGAGAGAGATGATTACTGCT  
TTGACACTTCTTTCTCTAAAAGAAAAATAGTTTGATAGTATATTTGAATATAGATGCTCTTATAGTCAGATTG  
GGAATTGAACCTGAATATTGGGTGATATGTTTGTGTGTTGCTGTAGTCTATCATGACTTTTTTCTTTCTGCATT  
TTCTTTAAAAAAGATGGCCTTCAAAGTGTGTTCTCAATGTTGTATGAACCTCCTTCACATGAGTTC  
GGTGTGTGCTCTCTTCAAAGACTCTTCAACCCACAAAGAAGCAACTAAATGTTTCTTAAGTTTAAATTTCTAG  
CGTGTGTGTCTTACCTTTTTAACCTTACCATAATTTCTGTAACTGTTACATTTAATATACCAATGTGTGT  
AAGTATACAGAGAAAATCTGTTTGTAAAGTAAATTTATATATAATATGTAATCAAAGATACATATGTTATA

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**FIGURE 1258B**

TATACATATGTGGATGTATGACTTATTTTTCCTTATCCACAGATTTTCAGCTACCATGTATATATAAATAAACTTA  
TTTTATTAGCCAGAG

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**FIGURE 1259**

MKRSLQALYCQLLSFLLILALTEALAFAIQEPSPRESLQVLPSGTPPGTMVTAPHSSTRHTSVVMLTPNPDGPPS  
QAAAPMATPTPRAEGHPPTHITISTIAATVTAPHSESSLSTGPAPAAMATTSSKPEGRPRGQAAPTILLTKPPGAT  
SRPTTAPPRTTTRRPPRPPGSSRKGAGNSSRPVPPAPGGHSRSKEGQRGNPSSSTPLGQKRPLGKIFQIYKGNFT  
GSVEPEPSTLTPRTPLWGYSSSPQPQTVAATTVPSTSWAPTTTSLGPAKDKPGLRRAAQGGGSTFTSQGGTPDA  
TAASGAPVSPQAAPVPSQRPHHGDQPQDGP SHSDSWLTVTPGTSRPLSTSSGVFTAATGPTPAAFDTSVSAPSQGI  
PQGASTTPQAPTHPSRVSESTISGAKEETVATLTMTDRVPSPLSTVVSTATGNFLNRLVPAGTWKPGTAGNISHV  
AEGDKPQHRATICLSKMDIAWVILAISVPISSCSVLLTVCCMKRKKKTANPENNLSYWNNTITMDYFNRAVELP  
REIQSLETSEDQLSEPRSPANGDYRDTGMVLVNPFCQETLFVGNDQVSEI

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**FIGURE 1260**

**AT**GGCGGCGGCATTACGGGTGGCGGCGGTGCGGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCGCGGT  
CGCAGCCTTTGCAGCCAGGCCACCTCTGTTAACGAACGCATCGAAAACAAGCGCCGGACCGCGCTGCTGGGAGGG  
GGCCAACGCCGTATTGACGCGCAGCACAAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCTTGCTGGAC  
CCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTGGAATGGCTGCTGACAAGAAT  
AAGTTTCCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAGATTGGTTTATGTCCTCAGTCAGGAT  
TTTACAGTTTTTTGGAGGCAGTCTGTCAGGAGCACATGCCAAAAGATCTGCAAAATCATGGACCAGGCCATAACG  
GTGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGC  
TATGCAGACATCTTTCTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGATTTCTCTGATCATGGGCCCATGT  
GCTGGTGGGGCCGTCTACTCCCCAGCCCTAACAGACTTCACGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATC  
ACTGGCCCTGATGTTGTGAAGTCTGTCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGCCAAGACCCAC  
ACCACCATGTCAGGTGTGGCCACAGAGCTTTTGAAAATGATGTTGATGCCTTGTGTAATCTCCGGGATTTCTTC  
AACTACCTGCCCCTGAGCAGTCAGGACCCGGCTTCCGTCCGTGAGTGCCACGATCCCAGTGACCGTCTGGTTCCT  
GAGCTTGACACAATTGTCCCTTTGGAATCAACCAAAGCCTACAACATGGTGGACATCATACACTCTGTTGTTGAT  
GAGCGTGAATTTTTTGAGATCATGCCAATTATGCCAAGAACATCATTGTTGGTTTTGCAAGAATGAATGGGAGG  
ACTGTTGGAATTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTTGGATATTAAATTCATCTGTGAAAGGGCT  
CGTTTTGTGTCAGATTCTGTGATGCATTCAATATTCACCTCATCACTTTTGTGATGTCCCTGGCTTTCTACCTGGC  
ACAGCACAGGAATACGGGGGCATCATCCGGCATGGTGCCAAGCTTCTCTACGCATTTGCTGAGGCAACTGTACCC  
AAAGTCACAGTCATCACCAGGAAGGCCTATGGAGGTGCCTATGATGTCATGAGCTCTAAGCACCTTTGTGGTGAT  
ACCAACTATGCCTGGCCACCGCAGAGATTGCAGTCATGGGAGCAAAGGGCGCTGTGGAGATCATCTTCAAAGGG  
CATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACCTTTCCCTGCAGCAGTGCGAGGG  
TTTGTGGATGACATCATCCAACCTTCTTCCACACGTGCCGAATCTGCTGTGACCTGGATGTCTTGGCCAGCAAG  
AAGGTACAACGTCTTGGAGAAAAACATGCAAATATTCCATTG**TAA**

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**FIGURE 1261**

MAAALRVAAVGARLSVLASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHKGKLTARERISLLLD  
PGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVYVFSQDFTVFGGSLSGAHAQKICKIMDQAIT  
VGAPVIGLNDSSGGARIQEGVESLAGYADIFLRNVTASGVIPQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLF I  
TGPDVVKSVTNEDVTQEELGGAKTHTTMSGVAHRAFENDVDALCNLRDFFNYLPLSSQDPASVRECHDPSDRLVP  
ELDTIVPLESTKAYNMVDIIHSVVDEREFFEIMPNYAKNIIVGFARMNGRTVGIVGNQPKVASGCLDINSSVKGA  
RFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAF AEATVPKVTVITRKAYGGAYDVMSSKHL CGD  
TNYAWPTAEIAVMGAKGAVEIIFKGHENVEAAQAEYIEKFANPFFPAAVRGFVDDIIQPSSTRARICCDLDVLASK  
KVQRPWRKHANIPL

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**FIGURE 1262**

GAGGCTATGGCGCTCAACAAGAATCACTCGGAGGGCGGCGGAGTGATCGTCAATAACACCGAGAGCATCCTAATG  
TCCTATGATCACGTGGAACACATTCAATGACATGAAGAACGTGCCAGAAGCCTTCAAAGGGACCAAGAAAGGC  
ACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGCAAGGATGCCATGCAGTCCTTCATGATGCCA  
TTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTTGGTGCAAACCTACATCAAGGGAACAGTGAAGGCG  
GAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACTTTCACGGCAGGGGGCGCCATTGAGTTCGGA  
CAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTCCCCAGTGGAGCCTATGGCTACTCTTACATG  
CCCAGCGGGGCTATGTCTATCCCCCGCCAGTCGCCAATGGAATGTACCCCTGCCCTCCTGGCTACCCCTATCCA  
CCGCCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGGGCCATGGGATACGTGCAGCCCCACCACCG  
CCCTACCCCTGGGCCCATGGAACCTCCGGTCAGCGGGCCCCGATGTCCCCTCCACTCCTGCAGCCGAAGCCAAGGCC  
GCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCACAACGTCTACATGCCACGAGCCAGCCGCCG  
CCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCCCTCCTGCCTCCCTGCCCTCCACCCCTCATCT  
CTCTACCCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAGGGGAGGGGGCGCCTTGTTCTCCCTCCAGGT  
CTGATCATAAACAATTACCAGGAAGTAGCATTGTGGGACATTAGGGCCCCCGGCCCTCGGGAGAGGTGCCGCCAG  
CTTCCCATGCCAGCCCGGAGCCACAGTGCTGCCAGCGTACCTCCCTCACCGTCTGGGGCTCTTCTGGGAGCAC  
GGAGCATCCCCTGTTCTGTTTCACTCTCAGCTTCTCCCCTCGAAGGGACTCTCTGGCCACCTCCTCCACCGCAG  
TCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATGAGCCACTTCAGACCAGCCAGGTGTCTTCCC  
GGGCCCTGCCAGACCTGCTCATTCCCTCTGCTGGTCTGTGCTGGTCTCAGAAGGCCACCGCGCCCGCATTCC  
ACTCAGCCAGGGTCCAGCTGCAGCCCCCGCCACCCTTCCTTCCCTTCCCTGTCTGGGTCTGTTGTTGCCACCC  
TGTGTGACTTTTGAAGCTGTAAATGAGCTTCCAGGGCTTGGGTGGCGTCGGGGCAGGGCCGCCGAGGCTGGGAG  
GAAGCCCTTCTGCCTTTTGTGCTGGTGTCTTCTGGAATTTGCTTTCCCTCACCTCTCACTTCTCTAGAAGGAGCTT  
CCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCTGGGTGGGGCCGGGAACAAGGGCCCCCTGAC  
CCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCTTCCCTTAAGCTTTGTGCCCTGGATGCG  
CTAACATTCACTCTTGTGTTTGTCCCTGGACTGGCCATGAAGTGAGGAGATGGTTATTTAAAGAGAATTCCCTATTT  
ATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCCCTGTTTGCCCTCG

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**FIGURE 1263**

AGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCCGCCCCAGACCGGCCCTGTCCTTCCTGGGCCCTGAGCCTG  
AGGACCTGGAGGACCTGTACAGCCGCTACAAGAAGCTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAAT  
ACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAATTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCA  
TCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCA  
ACTATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGC  
ACAGCAATGCACTGGTGGACGTGCTGCCCCCGAAGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGC  
CAGATGTGATGTACGCGGACATCGGAGGCATGGACATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGC  
TCACGCATTTTCGAGCTCTACAAGCAGATCGGCATCGATCCCCCGAGGCGTCCATGTATGGCCACCTGGCT  
GTGGGAAGACCATGTTGGCAAAGGCGGTGGCACATCACACAACAGCTGCATTTCATCCGGGTCTGTTGGCTCGGAGT  
TTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATGGTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTG  
CCATCATCTTCATAGACGAGATTGATGCCATCGCCACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGG  
TTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATGGATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGG  
CCACAAACAGAGCAGACACCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC  
TTCTGACCGCCGCCAGAAGAGATTGATTTTCTCCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACT  
TGGAAGACTATGTGGCCCGGCCAGATAAGATTTTCAGGAGCTGATATTAACCTCCATCTGTCAGGAGAGTGGAATGT  
TGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATAACAAGACTGTCATCAAGAAGG  
ACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTCCCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCT  
CGCACCCCCAGCACCTCTGTCCCAAAACCTCATTCCCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAG  
ATAAGATCGAATCC



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**FIGURE 1264**

CTGGAAGAATTGCGGGCCGAAGTGGCTGGCTCATTAAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCT  
GCGATGGTCCGAGCGAGGCCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCCACG  
GGGCGCTGCTCAAGTTCAGATTTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATT  
AGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCT  
TTCTGTGTCAGTCTTCAAAC TAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATG  
CAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGCAAC  
ATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAGCTG  
GAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCATATG  
GATTCAATCCACACCATCGATCATAGCACCACTATCAGCACTGAAAACCTCTTTTGCAATTAAGGGATCATTGCA  
AGAGCAGCGTGA CTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTCTTG  
GCAGGCTCGTTGTACCTCTTGAAAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTTGGAATTCTGCA  
CATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCTCCCAAAAATCACCCAGTTAATGTGTGTGTGTGT  
TTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTTCTTAGTCATATTTGAAAAAGTAGAAAATTGAGTTA  
CAATTTGATTTTTTTTTTCCAAAGATGTCTGTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTTATAGTTTA  
AAATTGATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTTGGCC  
ATGTCCAGTTTATACAGTTTACAAAATATAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTACTCTA  
TAAATTTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAACCAACTGCTTTTTAAATCC  
TATTGTGTAGTTAAAGTGTGCATGCCTTGACCAATCTAATGAATTGATTAATTAACCTGGGCCTTTATACTTAACTA  
AATAAAAACTAAGCAGATATGA

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**FIGURE 1265**

GC GGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAGTGTTTCCTGAGGTTATAGGCGGGTGTTTG  
AGGAGTACATGCGGGTTATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAA  
TATATAGACACATAGCATCTTTCCTGTCAGTCTTCAAAGTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATC  
CTTTTGCTTTCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGA  
TGGTTTTCTTCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATG  
TACCTGTGTGGTCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATCTTGACAATGAAA  
TGAAGCTCAATGTGCATATGGATTCAATCCCACACCATCGATCATAGCACCACTATCAGCACTGAAAACCTCTTT  
TGCATTAAGGGATCATTGCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGT  
ACAGACCAGATG

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**FIGURE 1266**

GCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCCAGCAAGAGATTAAAGATGCAGTACGCCACGGGGCCGCTGCTC  
AAGTTCCAGATTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATTAGCCAGCGGTAC  
CCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCTTTCCTGTCAGTC  
TTCAAAC TAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTCTTTGGCATGCAAGCTCCTAGC  
ATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGG  
TCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAAC TTGTTCAAATTCTTGACAATGAAATGAAGCTCAAT  
GTGCATATGGATTCAATCCCACACCATCGATCATAGCACCACCT

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**FIGURE 1267**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA  
AGGGGAAAACTCCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTCCTCTTTTTTGTAAAGCAATG  
TCTGCCTAGTTTATGTCCAGTTAACTTTAGTGACCTTTTAAAAGTTGGCATTGTAAATAAAACAACCTTGCAAAA  
AAGTTTTCTGGAATAGAATTAACAAAATATTATCTTTATTTCATGAGTTGGAACTGGAAAAAGGCTTCTTGAAGT  
AAATGTTCTGAGTGGAGCTACTAGGATGTCTCCAGCCTCCTGCAGTCAAGGAGTACCACTGTATTGATTAGCCT  
GTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTTTTCTTTATTTTTAATCCTCTTAGTTTTA  
AATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTGGGAGAAATGTAAGTGGACAGTTAGCTTT  
TCAATTA AAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAATTAGTGTTCCTATGTGGAGAAAATTATT  
CACACTACTTGATGTAAAGAATAATTTAACTTTTAACATTAAATATGTGGTAAAACCCAGAAAGCATCCATCA  
TGAATGCAAGATACTTTCAATAAAAAGTAAGTTATATAGTAGGTAGTTAAGTTTGCTTTTGTGGACTTAAATGTG  
TCTCTTCACTTAAATGGGTTGAATGTGTATATATTTGTTTCAGCTTGAAAAGACTTAGTTTATATCCTAGCTCACT  
GGAGGCTGCTGACATAACCATAACTTCTGTCCCTTCTAATTGTTCATTTATATGCCTAACTGGAGCTAGTACTTTA  
ATTCTTAACACAAAATTACTCTGCCATTGTTTCAGCTTCCCTCCTACAATAGAATGAAGTTTTTTTGATGGCTT  
GAGATGGCTCACAAATTTTGATTTTTTTTTCTTCCTTGCTGCTCCCTTTTTTCTCCTTGCTTTTCCAGTTAACAT  
CTATATTACATGTAATCTTGTCTTCTTTCACATTCACTGAGTTGTTTCAGGCTCAGATCATCCCTTGACAGTAG  
TTTGCTTTCATCTCACCTTTTCATTTGTCCCAAATTCACCTTATTTAATAAAGTCCCATATGTTGTCTCACTTAA

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**FIGURE 1268**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAAGGTCATTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA  
AGGGGAAAACTCCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAGG  
TACGCAAAGAGAACCAGTGGTGTGAAGAGAAGTGAAATGTTGTGCCTGACACTGTAACACTGTAAGGATTGTTCC  
AAATACTAGTTGCACTGCTCTGTTTATAATTGTTAATATTAGACAAACAGTAGACAAATGCAGCAGCAAGTCAAT  
TGTATTAGCAGAAATATTGTCCCTCATTGCATGTGTAGTTTGAGCACAGATCCCAAACCTTACGGCCAAGTTTCTTC  
TAGTATGATGGAAAGTTTCTTTTTTCTTTGCTCTGAATAAACTGAACTGTGGGTTCTCTATAAGTGGCATTTTG  
GGCTTTCCCTCTTTTTTGTAAGCAATGCTCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTT  
GGCATTGTAAATAAAACAACCTTGCAAAAAAGTTTTCTGGAATAGAATTAACAAAATATTATCTTTATTCATGAGT  
TGGAAACTGGAAAAAGGCTTCTTGAAGTAAATGTTCTGAGTGGAGCTACTAGGATGTCTTCCAGCCTCCTGCAGT  
CAAGGAGTACCACTGTATTGATTAGCCTGTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTT  
TTCTTTATTTTTTAATCCTCTTAGTTTTAAATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTG  
GGAGAAATGTAACCTGGACAGTTAGCTTTTCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAA  
TTAGTGTTCCTCATGTGGAGAAAATTATTCACACTACTTGATGTAAAGAATAATTTAACTTTTAACATTAAAATA  
TGTGGTAAACCAGAAAGCATCCATCATGAATGCAAGATACTTTCAATAAAAAGTAAGTTATAT

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**FIGURE 1269**

MPSIQLQSFEDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE  
NKEKQTDDIPVWDQEFLLKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEE  
QVRKENQWCEEK

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**FIGURE 1270**

GGTGGGTTTATCTCAAGGCCTGAGTAGCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCACCATGCCTC  
TGCGACTTGATATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGCATCCTACAGAGC  
CATGGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTGTTTGAATCATGAAACACAGACACTGGTGAAGACAT  
TTGAAGTATGTGATCTTCTGTTTCGAGCTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATG  
ACATGCAGATTAGAGTGTTCATTACAATACTCTGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTC  
GCTGTATTGCTGTTTCATCCAACCCAGCCTTTTCATTCTAACTAGCAGTGATGACATGCTTATTAAGCTCTGGGACT  
GGGATAAAAAATGGTCTTGCTCACAAGTGTGTTGAAGGACACACCCATTATGTTATGCAGATTGTGATCAACCCCA  
AAGATAACAATCAGTTTGCCAGTGCCTCTTTGGACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTCACCAA  
ACTTCACTTTGGAAGGACATGAGAAAGGCGTGAATTGCATTGATTACTACAGTGGTGGGGACAAGCCATACCTCA  
TTTCAGGTGCAGATGACCGTCTTGTTAAATATGGGATTATCAGAATAAAACATGTGTGCAGACACTGGAAGGAC  
ATGCCCAAAATGTGTCTTGTCAGCTTTTCATCCTGAGTTGCCAATCATTATCACAGGTTTCAAGATGGAACAG  
TACGTATTTGGCATTCAAGCACCTACCGGCTTGAGAGCACACTGAATTATGGAATGGAGAGGGTATGGTGCCTGG  
CCAGTCTAAGAGGGTCAAACAATGTCGCTTTGGGCTATGATGAAGGGAGCATCATTGTTAAGCTTGGTCGGGAGG  
AACCTGCCATGTCCATGGATGCCAATGGAAAGATAATTTGGGCCAAGCATTGAGAAGTCCAGCAGGCCAACCTAA  
AAGCAATGGGAGATGCTGAAATTAAAGATGGTGAAAGATTGCCACTGGCAGTAAAGGATATGGGCAGTTGTGAAA  
TATACCTCAGACTATTCAGCACAAATCCTAATGGGCGGTTTGTGGTGGTGTGTGGTGTATGGGGAGTATATCATCT  
ACACAGCAATGGCATTGAGAAACAAGAGCTTTGGATCTGCTCAGGAGTTTGCATGGGCCACGATTCTTCAGAGT  
ATGCAATAAGAGAGAGCAACAGCATTGTAAAGATATTTAAGAACTTTAAGGAAAAAAATCATTTAAACCAGATT  
TTGGAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAGATCTGTAAATGGCTTAGCCTTCTATGACTGGG  
ACAATACAGAACTCATACGAAGAATTGAAATTCAGCCCAAACATATTTTCTGGTCTGACTCTGGAGAGCTAGTCT  
GTATTGCTACTGAGGAATCATTTTTTATCCTTAAGTATCTGTCAGAAAAAGTCTTGGCTGCACAGGAAACACATG  
AGGGAGTTACTGAAGATGGCATTGAAGATGCCTTTGAGGTTCTTGGTGAGATTCAGGAAATTGTGAAAACAGGGC  
TTTGGGTAGGCGATTGCTTCATTTACACAAGTTCTGTGAACAGATTAAATTATTATGTTGGAGGAGAAATAGTCA  
CCATTGCCCCACTTGGACAGGACGATGTATCTCCTAGGCTACATTCCTAAAGACAACAGGCTTTATCTGGGGGATA  
AAGAATTGAACATCATTAGCTATTCCCTGCTGGTTTTCAGTCTTGAATACCAGACAGCTGTCATGCGGAGGGACT  
TTAGCATGGCTGATAAGGTCCTTCCCTACCATTCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTTGGAAAAGC  
AGGGCTTCAAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTTGAGCTTGCTCTTCAGCTTGGAG  
AGTTAAAAATGTCATACCAGTTAGCAGTGAAGCAGAGTCAGAACAGAAGTGGAAACAACCTTGCTGAACCTGCCA  
TTAGTAAATGTCAGTTTGGCCTAGCCCAGGAGTGCCTGCATCATGCACAGGATTATGGGGGCTGCTGCTTTTGG  
CCACTGCCTCTGGAAATGCTAATATGGTGAACAAGCTAGCAGAGGGTGCAGGAGAGATGGCAAAAATAATGTGG  
CATTGATGAGCTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAAGTGGACGGCTGCCAG  
AAGCTGCCTTCTTGGCCCGAAGTTACTTACCCAGTCAGGTTTCAAGGGTAGTGAACTCTGGAGAGAGAATCTCT  
CAAAAGTCAATCAGAAAGCAGCAGAATCCCTTGCTGACCCAACAGAGTATGAAAACCTGTTCCCTGGATTAAAG  
AAGCCTTTGTTGTTGAAGAATGGGTGAAGGAAACACATGCTGATCTGTGGCCAGCCAAAACAATACCCACTTGTCA  
CGCCAAATGAAGAGAGAAATGTCATGGAAGAGGGGAAAAGACTTTTCAGCCCTCAAGATCTACAGCTCAACAGGAAC  
TTGATGGGAAACCTGCTTCTCCTACTCCGTTATTGTGGCCTCCCACACAGCCAACAAAGAAGAAAAGAGTTTAC  
TCGAAGTAGAAGTAGATTTGGATAATTTGGAATTAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATA  
TTTTGGATGATTCACTGTAATGCTTTCCATTACCTGACTAAACAGATCATTATTATATATAGGTATTGATTGCT  
ACCCTGACCACAGTGCTTTGGACTATGAGAACTTCTTAGATTTTTATATGTAAATGCTGTGGACCACTGGGAGC  
ACAATGCCCACATCATCTTAAGAAGAGTTTATGTGCAGCATTTAAATCACTGTGTTTTCTTGTTAACTAAACA  
GACATGGGCTTTGATTTTTTTCATACTATTAGACCATATCTCATAAAACCTTTTGAATAAAAAAA

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**FIGURE 1271**

MPRLRDIKRKLTARSDRVKSVDLHPTPEPWMLASLYNGSVCVWNHETQTLVKTFEVC DLPVRAAKFVARKNWVVTG  
ADDMQIRVFNYNTLERVHMFEAHSDYIRCI AVHPTQPFILTSDDMLIKLWDWDKKWSCSQVFEGH THYVMQIVI  
NPKDNNQFASASLDRTIKVWQLGSSSPNFTLEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTL  
EGHAQNVSCASFHPELPIIITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLG  
REEPAMSM DANGKI IWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQHNPNGRFVVCGDGEY  
IIYTAMALRNKSFSGSAQEFWAHDSSEYAIRESNSIVKIFKNFKEKKSFKPDFGAES IYGGFLLGVRSVNGLAFY  
DWDNTELI RRIEIQPKHIFWSDSGELVCIATEESFFILKYLSEKVLAAQETHEGVTE DGI EDAFEVLGEIQEIVK  
TGLWVGDCFIYTSSVNRLNYYVGGEIVTIAHLDR TMYLLGYIPKDNRLYLGDKELNIISY SLLVSVLEYQTAVMR  
RDFSMADKVLPTIPKEQRTRVAHFLEKQGF KQQALT VSTDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAE  
LAISKQCFGLAQECLHHAQDYGGLLLLATASGNANMVNKLAE GAERD GKNNVAFMSYFLQ GKVDACLELLIRTGR  
LPEAAFLARTYLP SQVSRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYP  
LVTPNEERNVMEEGKDFQPSRSTAQQELDGK PASPTPVIVASHTANKEEKS LLELEV DLDNLELEDIDTTDINLD  
EDILDD



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**FIGURE 1272**

ATGCAGCGCTACAATTTTCATTATCTTAAGTACATTGTACATTTCTACAGAACCTGTGATTATTCTCGCATGATA  
AGGATGGTACTTGCATATGGTGAATTACTACTGTTGACAGTTTCCGCAGAAATCCTATTTTCAGTGGACCAACATT  
GTGGCATGGCAGCAAATGCCAACATTTTGTGGAATAGCAGCAAATCTACAAGAGACCCTGGTTGGTTTTTCGTTT  
TGTTTTCTTTGTTTTTTCCCCCTTCTCCTGAATCAGCAGGGATGGAAGGAGGGTAGGGAAGTTATGAATTACTCC  
TTCCAGTAG

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**FIGURE 1273**

MQRYNFHYLKYIVHFYRTCDYSRMIRMVLAYGELLLLTVSAEILFQWTNIVAWQQMPTFCGIAANLQETLVGFSE  
CFLCFFPLLNNQGWKEGREVMNYSFQ

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**FIGURE 1274**

AAAGCTCGCGCGGGGGAAGCGGGGCTGTAGCTGGGCAGGGAGAGGGCGGACGAAATCGGTAGCGATCTCGGCTGC  
GGCGCTGCCGCGAGCTGCCCGGCCCGCGGGGCGCGCCCTGACCCTTCATCTTTGGGCAGGCTCGAGGGCGCGCGCA  
CGGTTGGCGTTCTGGGGCCTCAAACCTCTGGGCCCTTGACCGGGCAGGCCGCGTCTCCCCGGGTGTGAGTCCACCG  
GGACCCGGCCGCGCCTAAGCGCGGGCGCCACAGAAGCGGGCGGCCCGAAGACGCGCTCCTGGCTCGGCCCGAC  
AGCCTCGCTTGCCCGCAGTTCCTTCTGCAGCCGAAGGCGGTTGTTCTTTTAAAGAATTATTGAAGACGAAGGTTT  
TTTTCTTTTATTTTTTAAATGGCTTTACAGAATCTTAAATAGAATACAGTTTGACATGACGGCAAAAAATGTTG  
GTTTGACTTCCACAAATGCAGAAGTAAGAGGATTTATAGATCAGAATCTCAGTCCAACAAAAGGCAACATTTTCAT  
TTGTTGCATTTCCAGTTTCCAATACCACTCACCTACAAAGATTTTACCAAAAAACCTTAGGACCAATAAATGTGA  
ATGTTGGACCCCAATGATTATAAGCACACCACAGAGACTAACCAGTTCAGGAAGTGTCTGATTGGGAGTCCAT  
ATACCCCTGCACCAGCAATGGTTACTCAGACACACATAGCAGAAGCTACTGGCTGGGTCCCTGGTGATAGAAAAC  
GGGCTAGAAAATTTATAGACTCTGATTTTTTCAAGTAAACGAAGCAAAAAAGGAGATAAAAAATGGGAAAGGCT  
TGAGACACTTTTCAATGAAAGTGTGTGAGAAAGTTCAACGAAAAGGTACAACATCGTACAATGAAGTCGCTGATG  
AGCTGGTGTGAGAGTTCACCAATTCAAATAACCATTTGGCTGCTGATTTCGGCTTATGATCAGAAGAACATTAGGC  
GAAGAGTTTATGATGCTTTAAATGTGCTAATGGCAATGAACATAATTTCAAAGGAAAAAAGAAATCAAGTGA  
TTGGCCTGCCTACCAATTTCTGCTCAGGAATGTCAGAATCTGGAGATAGAGAAGCAGAGGCGGATAGAACGGATAA  
AGCAGAAGCGGGCCAGCTGCAAGAACTTCTCCTACAGCAAATCGCTTTCAAAAACCTGGTACAGAGAAATCGAC  
AAAATGAGCAGCAAAACCAGGGCCCGCGGCTCTGAAGTCTACCAATTCAGCTGCCATTTCATAATCATCAATACAA  
GCAGAAAAACAGTCATAGATTGCAGCATCTCCAGTGACAAGTTTGAGTATCTTTTCAATTTTGACAACACCTTTG  
AGATCCATGATGACATAGAAGTACTAAAGCGGATGGGAATGTCGTTTGGCCTGGAGTCAGGCAAATGCTCTCTGG  
AGGATCTGAAACTTGCAGAAATCCCTGGTGCCAAAGGCTTTAGAAGGTTATATCACAGATATCTCCACAGGACCTT  
CTTGTTTAAATCAGGGACTACTTCTGAAGTCTACCCAATCAGTTTCAAATTTAGACCTGACCACTGGTGCCACCT  
TACCCAGTCAAGTGTAACCAAGGTTATGCTTGGATGCAGAAGTGGCCTTAGCAACTGGGCAGTTCTTGCCCC  
CAAACAGTCACCAAGTCCAGCAGTGCAGGCTCTCACTGCTCCGAGTCCCGAGGCGAGACCCCTGTTGTTCAATG  
ATGAAGATGAGGAAGATGATGAGGAGGATTCCTCCTCCCCAGAATAAAGACAAGAGAAAGCCTACGTTTCAATAT  
GTGATGCTCATGTGTGTTTGTAGTGTGAGCTCTTGTTTTTGAATGATTGCTTCAGTCTTTGCCTTTGTTTGCAC  
TGTGTGTTTCAAGTAAAACCTAGAGAAACACAATAAGCAAATCACATGAAGGCTGAGATGATTGAGATGAAAGTTAA  
CATAGTGTGAATGAAAGTCTGGCCAACAGAGCAGTAGATGATATAACAAAGAAAGCATGCTTTCTGAGGAGATAG  
TGGGGATAATCCCTGAAGAGTTGGCAGTGTGAGTGCAACTCATTTATCTTCTGTGAGGTGGGATTTTTGTGTTCC  
TCACACCCATGTAATTATCTTAGAATTGAGATTGCTACACGGAGCAGTCCCTGACGATCGTGTCTGACGTTT  
CTCTTCTTGCCTGGACTGCCTTTGACAAGGCAGAAATGAACATGAAAAGTCCCCAGGAGAGGGGAGCTGTGTAG  
TGAGGGATACTGAGGGCAGTCCCTGTGGCTGAGGGGCACAGATTGAACTGCTGAACTAGTTGGAGGTCTAGATGAG  
GTGCTTTACGCATCAGCTGCCTTAGACAGCTTCTAGAAAGGAGCGAGCGCTACTTCTTAAGTACTTAAGTGACAT  
TTAGATAATTTATAGTAAAACCTGAAATTATTATTAGCCAATGCATTGGTGATAGAAATTTACTAGGGCTACTTCT  
GGAAGCCAAAATAGAATAGCATTTCATGTGCATTAAATACTTTGCCAGCACTGCCTTTGCCAGCATCCTAAATC  
TGGAGTTTTACAAAGAAGGAAACTGTATCTTTAGGTTAATCAAAGCTATGCATTTTCATATAGCTTTTTTCATTTAA  
AACAAGACAAAAGAAACAAATTCCTATGACCAAATTGCTTGCTACAGTTCCCTGCAGTAATTGTATGATCTCACC  
CAGTGTGCAATTTGTGAAAATGAACCAAATGTCATTACTTTTGTCTTAAAGAAAAGTCTATTTCAAGAATATGAA  
CAGCAGTG

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**FIGURE 1275**

ACACACACTCCCGCTTGGGCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGCCGGGGTCTCCTGT  
GGGGGGCCCAGCCGGTATCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCCGGGGGAGCCGAGAGCCGGGGGCA  
GACGGGCGGGGGTGGGGCGGAGGGAGCAGCGGCCCCAGCGAGTTTGTGGGGAGAAGTAACCAAGCGGGGGGAGG  
GGCTGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCCAGCTATGGACTAACGGCTACTGGGGCCGCCTCCTCCAGGC  
GGGGCCCCGGGGGGGGCCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCTGGTGGCGGAGACCC  
CGGTGGGGGTAGCGGGGGGTTCCTGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGATAATGAC  
CATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCCTGCTCT  
CTTTAGCGTCTGTGTGAAATCAAGGAGAAAACCGGCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCCGGTGA  
CCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGGCCGAGAAAGGGGGCGGCTCAGC  
AGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGCGTGTCCCCTGACAACCTCCATCGAACACTCGGACTATCG  
CAGCAAACCTTGCCAGATCCGTACATATACCACTCGGAACCTGGAGAAGTATGAGCAGGCATGTAATGAGTTCAC  
GACCCATGTCATGAACCTGCTGAGGGAGCAGAGCCGACCCAGGCCCGTGGCCCCCAAGAGATGGAACGCATGGT  
GAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTATGATGATGCT  
GCGTCCCGTTTTCTGGATGCCAGACGAAAGCGCCGTAACCTTCAGCAGACAGGCCACTGAGGTCTAAATGAGTA  
TTTCTACTCCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGGCATCAC  
CGTGTCTCAGGTCTCCAACCGTTTTGGCAACAAGAAGATTCGCTATAAGAAAACATCGGAAAGTTCCAAGAGGA  
GGCAAACATCTATGCTGTCAAGACAGCCGTGTCAGTCACCCAGGGGGGCCACAGCAGCACCAGCTCCCCGACACC  
CCCTTCTCTGCAGGCTCTGGCGGCTCTTTCAATATCTCAGGATCTGGAGACATGTTTTCTGGGGATGCCTGGGCT  
CAACGGAGATTCTATTCTGCTTCCCAGGTGGCATCACTCCGACGCTCGATGGGGCCAGGGGGCTATGGGGATAA  
CCTCGGGGGAGGCCAGATGTACAGCCCACGGGAAATGAGGGCAAATGGCAGCTGGCAAGAGGCTGTGACCCCTC  
TTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTCACTCTGATACCTCCAACCTGATCTTGCCCTCAGGGTC  
ACAGGGGTGGGGGCTCTACAAGGCGACTCTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAG  
AAGCACAAGACAGAGAAGGGCCAATGGGGTCATCCGCTCCCTAATGAGACTGTCTGTGCTGGGGGTGCTAATTAC  
ATGGCAGGAAGAATGGGGCCCCTAAGGGGAGTGTGGGGTCTGTCTCTCCCTTTTTTCCAACCTTTTCTCTCTCG  
CTTTCTTTCTTACACAGAAACATGCACATACCCAGAAACCTATTTTCTCAGACCCCTTTTTCTCCTCTGTCTTTC  
TCTCTCCCTCTCCACACCTCACACACATACTCCCACTTGCAACTATTCTGTTTTCTCTCCTGGGCTCCCCAC  
TTTCCCTTCCCCACCCCACTTGTAGGCTCTGGAATCTGGAGACGCCAGCCCTGCCCAATCAGAGATGCCAAAAAT  
GGGGACATGACTTCTGGACAGAGGACATGGGACACGCCCCATGCATCCCCACCCCTGCCCTCCAGACAGCTTA  
CTTACCTCATACGCAGCTCATCTTAAACCAATAGAATCGCTTGGTGGACGAGAGTGTCTGACTCAGATATCTACC  
TCGGAGGGAGTTTTCTGCTACTTTAGGGAATTATTGACTGGGCTTGGGGTTGAACTTTTTTTTTTTTTTTTTT  
AAAGAAAGAAAAAGAAACCTGGGATCCATCTGTTTTTGTGTTGTTGTTGTTGTTTTTGTGTTGTTGTTGTTGTTG  
GTGGTGGTTCTTAATTTTTTAATTTAGTTTGGGGAAGTAGCTTGTTTTTTTTTTTTTTAAATAAATATGTTGATTCT  
TGTCTTTTTTTTTATTCTTACTTTCCCATATTAGGGGTGATAGCCAAAGGGGTTCTGGTAAGAGAAAGGGGACA  
AACAGAACTGGTAAGAGGGCCCCCTGGCTCCAGGCCGTGCCATCAGGAAGTAAATTTTACAGGGCACCAAGCTT  
TGCCCCCTAAAATCCATTAGGTGTTCTTTGTTTCATGCAGGCAGGTTTCTGCCGCATTTGATGTGGAGGCAGTGAA  
GGGCTTGCCCTGCTGGCCTCTCATCCCCCTTCTTCCACAACCCTTGGGCAGGGCTGGACTCAGTAATTTGAGG  
AAATTGAAGATGCCATCTTCCCCTGTGAGTGACATGCTTTAATTTTTTAAAAACTCTATTTGAAAAATTGGAGG  
GGGAAGAATGGGAAGGGAGTTATTGCCAAATATGTTAATTATGGGTTGGGGTGCTTGTATATGTATCTTCCTCAA  
TTTCCGCATAAATGAGGTATCTTTTTGTCACACCAAAATCAAGGGGTAGGGAGAGGGAGGAGGTTGCAAAAAGCC  
AGATGTGGGGGAAAAGTAACATCAACACTGTCCCATCCTCAGCCCTGAACCCTACCATCTGATCCCCCTCAGACAT  
TCTCAGGATTTTACAAGACTGTGAGTGGGGAAACCCCTCCCATTAAGATCCGGGCAGGACTGGGGACAGGTTG  
GAAATGTGATGGGTTGGGGGTGGGAGGCATGGGCCGGGGGAGTTCTCTCCTCACTTGTAACCTTGTGTAGTTT  
CACAGAAAAAAAATGCAGTTTTAAATAAAGAAATTTCTTT



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**FIGURE 1277**

MRGANAWAPLCLLLAAATQLSRQQSPERPVFTCGGILTGESGFIGSEGFPGVYPPNSKCTWKITVPEGKVVLNF  
RFIDLESNDLCRYDFVDVYNHANGQRIGRFCGTFRPGALVSSGNKMMVQMISDANTAGNGFMAMFSAAEPNERG  
DQYCGLLDRPSGSFKTPNWPDRDYPAGVTCVWHIVAPKNQLIELKFEKFDVERDNYCRYDYVAVFNGGEVNDAR  
RIGKYCGDSPPAPIVSEARNELLIQFLSDLSLTADGFIGHYIFRPKKLPTTTEQPVTTFPVTGLKPTVALCQOK  
CRRGTLEGNYCSSDFVLGTVITTTITRDGSLHATVSIINIYKEGNLAIQQAGKNMSARLTVVCKQCPLLRGLN  
YIIMGQVGEDGRGKIMPNSFIMMFKTKNQKLLDALKNKQC

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**FIGURE 1278**

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGCCACCCGATATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGCTGTTCCTTTGGCGACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG  
TGCGTATTGAGCACATTTAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA  
AGAAAGAAGCCAAAAGAGAAAGGTACCTGGGTTCAACTAAAGTTCCAGCCTGCTCCACCCAGAGAAGCACACTTG  
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTTATTCCTATGAATTCATGGCATTAATAGGTGTTAAAAA  
AAATAAATAAAGGACCTCTGGGCTA

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**FIGURE 1279**

MTNTKGKRRATRYMFSRPFRKHGAVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRINVRIEHISHSKSRDSFLKCMKENDQKKKEAKEKGTWVQLKFQPAPPREAHFVRTNGKEPEL  
LELIPYEFMA



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**FIGURE 1280A**

CCGCGGGCGGGGCGGCTGGCGTTCACGTGACCCGGCGTCATTGGCTCGCTCGCGGAAGTAGTCCTACATTCGCG  
GTCAGCGCGGGTCTCCGGGCGCCCTGCAGGGCGGGCAGGCTGTGCCATCCCGCCGGACGTGGGATCGTGCAGC  
TGTACAACCTGCACCCGTTTCGGGTGCGCAGCAGGTGGTGCCCTGCAAGCTGGAGCCGGACCGGTTCTGTGGCGGGG  
GGCGTGACGCGCTTTTCGTGGCGGCGGGCTGCAAGGTGGAGGCGTTCGCGGTGGCCGGCCAGGAGCTGTGCCAGC  
CGCGGTGCGCCTTCTCCACGCTGGGCGGGGTGTTGCGCCTGGCCTACAGCGAGGCTGGAGATTATTTGGTAGCAA  
TTGAAGAGAAAAACAAAGCTACATTTCTACGTGCTTATGTGAAGTGGAGAAATAAAAGGACTGAAAACCTCTCGTG  
TGTGTATCCGAATGATTGGGCATAATGTGGAGGGACCATTTCAGCAAAGCCTTCAGAGACCAGATGTACATTATTG  
AAATGCCGCTTTTCGGAGGCCCCCTTGTGCATTTCTGTGCCCCTGTGAAAGGAGACCTTCTCGTTGGCTGCACAA  
ATAAATTAGTCTTATTTAGTTTGAAGTACCAGATCAATTAATGAGGAATTCTCACTATTGGACTTTGAACGTTCTT  
TAATTATACACATAGATAATATCACTCCTGTTGAGGTTTCTTTTTGTGTTGGATATGTTGCTGTCTATGTCAGACT  
TAGAAGTCTTAATCGTAAAACTGGAGTCAGGCCCTAAAAATGGAGAGAGAGTTTACCACCATCCACATAAGACCA  
ACAATCGAATAAGACGGACAGAAGAAGGCATCAGTAATGAAATTTACAGCTTGAGTCAGATGATTTTGTCTATCT  
GCCAGAAGCCCCCTGGAACCTTCTTGGTGAAAAAAGTGAACAGTCTGGATTATCTGTTACACTGGAGTCTACGGGAT  
TAGCTGATGAAAAAGAAAAATATTCCCACCTTTCAGCACCTGCTCTATAGACGTTTTGCTCCTGATATTTCTGTCCT  
ATGTCTTGTCTGATGACATCAAGCTACATTCCCTCCAGCTGCTACCCATTTACCAGACCGGTTCTCTTACATCTG  
ATGGAAAAAATTTGTCTCAGGAAAAAGAATTGCTGAGTCTCTTTTGCTTTTTCTCCTTACCTCATGTGGGCTATC  
TCTACATGGTTGTCAAATCTGTTGAATTGATGTCAGTCTACCAGTATCCTGAAAAGTCTCAGCAGGCAGTACTCA  
CGCCACAATTTTGCACGTCATTACAAGTAACAACCTGCAGTGTTCAGTGTGCGGTGCAGTGGCGGCGCAGCTC  
GTGAGGAGGACCCGTACATGGACACCACCTGAAGGCTTGCCACCTGTCAGTATGGATGTCTGTGCTTTAAGAA  
TACAGCTTTTCATAGGCTTGAAAGCCATCTGTCACTTTAAAAACCACATCATACTTTTGAATAAAGCAGAACCTG  
AAGCCATTCCAGAGAGAAGACAGTCACCCAAGAGGCTTCTTTCGAGAAAAGATAACAGTGTAAATCAAAATAC  
CTCCTGTAGCTGAGGCTGGGTGGAATTTGTATATTGTGAATACGATCTCACCAGTGCAGCTGTACAAAGAGATGG  
TAGACTATAGCAATACCTATAAGACTGTCAAAACCCAGAGCTGCATTACCTTCTCAGTGAGGCTCATCTGTTAG  
TGCGAGCTGCCCTGATGGATGCCAGTCAGCTGGAACCTGGAGAGAAGGCAGAGCTTTTGAAGCATTAAAGGAAA  
GCTGTGGGCACCTTGGGGACTGTTACAGCAGGCTTGACTCCAGCATTCTCATCTCACCTTGCCATACTATAAGA  
TGTCTGGTTTGTCTATGGCTGAAGTTCTGGCCCGCACGGACTGGACAGTAGAGGATGGATTACAGAAATACGAGA  
GAGGATTAATCTTTTACATTAATCATTCACTTTATGAAAACCTGGATGAAGAATTAAATGAAGAATTAGCAGCAA  
AAGTGGTTTCAAGATGTTTTATGTGGCTGAGCCAAAGCAAGTGCCCCATATTCTCTGTAGTCCTTCTATGAAGAATA  
TTAATCCTTTAACTGCCATGAGCTATCTAAGGAAGCTGGATACTTCTGGGTTTTTCATCGATCTTAGTGACATTGA  
CCAAGGCAGCAGTGGCTCTGAAAATGGGAGATCTTGACATGCACAGAAATGAAATGAAAAGCCATTTCAGAGATGA  
AGTTGGTATGTGGCTTCATTCTGGAACCTCGGCTGTTGATTCAACAGAGAAAGGGACAGATTGTTCCAACCGAGC  
TTGCACTTCACTTGAAGGAACTCAGCCTGGATTGCTTGTGGCTTCAGTTCTGGGCTTGCGAAGAACAACAAAA  
TTGGAATTGAAGAAGCAGATTCTTTTTTAAGGTGCTTTGTGCTAAGGATGAAGATACAATTCCTCAGCTCTTGG  
TAGACTTTTGGGAAGCTCAGCTAGTGGCATGTCTCCAGATGTGGTACTTCAGGAACCTTTTTTCAAACCTCACAT  
CACAGTACATCTGGAGATTGTCTAAGAGGCAGCCTCCTGACACCACACCATTGCGAACATCGGAGGATCTGATAA  
ATGCCTGTAGTCATTATGGCTTAATTTATCCATGGGTTTCACGTGCTAATATCATCTGATTCTTTAGCTGATAAAA  
ATTATACAGAAGATCTTTCAAATTAACAGTCTCTTATATGTGGTCCCTTCATTGACATAGCTTCCATTATTCCGT  
TCTTGGAGCCACTTTCAGAAGACACTATTGCCGGCCTCAGTGTCATGTTCTGTGTCGTACACGCTTGAAAGAGT  
ATGAACAGTGCATAGACATACTGTTAGAGAGATGCCCGGAGGCAGTCATTCCATATGCTAATCATGAACTGAAAG  
AAGAGAACCGGACTCTGTGGTGGAAAAAAGTGTGCGCTGAACCTTGTGAGAGAATAAAATGTGGTGGAGAGAAGT  
ATCAACTCTACCTGTCTATCATTAAAGAAACATTGTCAATTGTTGCTGTGGAAGTGAAGTGAAGGATTTTCATGA  
ATGTTCTCCAGAAAGATGGTACTGCAACATTTTTCTTGCCATATCTTCTCTATTGCAGTCGAAAGAAACCATTGA  
CTTAAAGGTATCATTTGAAAAATACCATAATGGCATTGAGACTGAATTTCTAAAAATTGAATGCCAAAGTACAA  
GTAGAGGAGTTTTTTATTTATATATACACACACACACACACACACACACATATATGATACAA  
ATGCTTTCAGGCTGCTTACCTTACCGTGTAGTGGTAACATTTCACTTCTTAATTTATGACCTCAATCAATTTAAT  
TGCTTAGAATGTAAAAAGTCTTTAAGACATAAGAATTCCTCAAAGAAGCCATACATTTTTTAAGGTGGGGATTGA  
CTTTTATTCCAAGGAACAACATCAGTTCACTGTTGTTGGAGACATGACAATCATTTTTCATCCCAAGAACACTTTA  
AGGAAACATTTTACAAGTATGCTTGAAAGAATGTCACTAACTGGTCCAGAAATTTATCTTCTTGATTTTCCAGA

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**FIGURE 1280B**

TTTCTCTATGTTTTTGAGAAAGATGTTAATGTTTTGCCATGGTAAAAGATTTCAAACCTCATTTTTTTTGTTCCT  
TTTCTTGTTACTTTTAAGAAAACATGCTCTGTTTCTCTGAATCAAATGAAGTAGAAGTTTACAAAGCTAACTT  
TCTTCTTGCTAGCTATTAACATGATTTGTCAAATGCATGTTTTTTTCAGCCAAAGCCTTGTTTCCATTTTTGTT  
GATGTGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAATAAAGAAATACATCATTGTATTCACAAAAAAA  
AAAAAAAAAAAA

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**FIGURE 1281**

MVQLYNLHPFGSQQVVPCKLEPDRFCGGGRDALFVAAGCKVEAFVAVAGQELCQPRCAFSTLGRVLRLAYSEAGDY  
LVAIEEKNKATFLRAYVNWNRKRTENSRCIRMIGHNVEGPFKAFRDQMYIIEMPLSEAPLCISCCPVKGDLLV  
GCTNKLVLFLSKYQIINEEFSLLDFERSLIHIDNITPVEVSFCVGYVAVMSDLEVLIVKLESGPKNGERVHHP  
HKTNNRIRRTEEGISNEISQLESDDFVICQKPLELLGEKSEQSGLSVTLESTGLADEKRYSHFQHLLYRRFAPD  
ISSYVLSDDIKLHSLQLLPYQTSITSDGKNLSQEKELSLFCFFSLPHVGYLYMVVKSVELMSVYQYPEKSQQ  
AVLTPQFLHVITSNNLQCFTVRCSAAAAAREEDPYMDTTLKACPPVSM DV CALRIQLFIGLKAICHFKNHIILLTK  
AEPEAIPERRQSPKRLLSRKDTSVKIKIPVVAEAGWNLYIVNTISPVLKEMVDYSNTYKTVKTQSCIHLLSEA  
HLLVRAALMDASQLEPGEKAELLEAFKESCGHLGDCYSRLDSQSHSLTLPYYKMSGLSMAEVLARTDWTVEDGLQ  
KYERGLIFYINHSLYENLDEELNEELA AKVVMFYVAEPKQVPHILCSPSMKNINPLTAMSYLRKLDTS GFSSIL  
VTLTKAAVALKMGDLD MHRNEMKSHSEMKLVCGFLEPRLLIQQRKGQIVPT ELALHLKETQPGLLVASVLGLQK  
NNKIGIEEADSFFKVLCAKDEDTIPQLLVDFWEAQLVACL PDVVLQELFFKLTSQYIWRLSKRQPPDTTPLRTSE  
DLINACSHYGLIYPVHVVISSDSLADKNYTEDLSKLQSLICGPSFDIASIIPFLEPLSEDTIAGLSVHVLCTR  
LKEYEQCIDILLERCPEAVIPYANHELKEENRTLWKKLLPELCQRIKCGGEKYQLYLSSSLKETLSIVAVELELK  
DFMNVLPEDGTATFFLPYLLYCSRKKPLT

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**FIGURE 1282**

GGCACGAGGGCTTCTCCTGCGCCTCCTTTTTCGCCCAGCACTAGCGCCTTAGGCCAGCTCGGGGGATGTGAGAGCC  
GAAGCCCTTAGACTGCCAGGCACAGAGTCGGGTCGGGATTTGTTCAGCCAAGCCTCGGCTCCAGCTCCGCAATCTC  
GGGACTCACCCGAGCGACCCAGGCCCGACGGCAAGTTTCGGGCGGGACGGCGGGCCGCGCGCTCAGGCTCAGCT  
TCGCTGCCCCGCCAGAAAGATGAATCCGGCCTCGGCGCCCCCTCCGCTCCCGCCGCTGGGCAGCAAGTGATCCAC  
GTCACGCAGGACCTAGACACAGACCTCGAAGCCCTCTTCAACTCTGTTCATGAATCCGAAGCCTAGCTCGTGGCGG  
AAGAAGATCCTGCCGGAGTCTTTCTTTAAGGAGCCTGATTTCGGGCTCGCACTCGCGCCAGTCCAGCACCGACTCG  
TCGGGCGGCCACCCGGGGCCTCGACTGGCTGGGGGTGCCAGCATGTCCGCTCGCACTCGTTCGCCCGGTCCCTG  
CAGCTGGGCACCGGCGCGGTGCTGCGGGTAGCCCCGCGCAGCAGCAGCACGCGCACCTCCGCCAGCAGTCTTACGAC  
GTGACCGACGAGCTGCCACTGCCCCGGGCTGGGAGATGACCTTCACGGCCACTGGCCAGAGGTACTTCTCAAT  
CACATAGAAAAATCACCACATGGCAAGACCCTAGGAAGGCGATGAATCAGCCTCTGAATCATATGAACCTCCAC  
CCTGCCGTCAAGTCCACACAGTGCCTCAGAGGTCCATGGCAGTATCCAGCCAAATCTCGTGATGAATCACCAA  
CACCAGCAGCAGATGGCCCCCAGTACCCTGAGCCAGCAGAACACCCCACTCAGAACCCACCCGAGGGCTCATG  
AGTATGCCCAATGCGCTGACCACTCAGCAGCAGCAGCAGCAGAACTGCGGCTTCAGAGAATCCAGATGGAGAGA  
GAAAGGATTGGAATGCGCCAAGAGGAGCTCATGAGGCAGGAAGCTGCCCTCTGTGACAGCTCCCCATGGAAGCT  
GAGACTCTTGCCCCAGTTCAGGCTGCTGTCAACCCACCCACGATGACCCCAAGCATGAGATCCATCACTAATAAT  
AGCTCAGATCCTTTCTCAATGGAGGGCCATATCATTTCGAGGGAGCAGAGCACTGACAGTGGCCTGGGGTTAGGG  
TGCTACAGTGTCCCCCAACTCCGGAGGACTTCTCAGCAATGTGGATGAGATGGATACAGGAGAAAACGCAGGA  
CAAACACCCATGAACATCAATCCCCAACAGACCCGTTTCCCTGATTTCTTGACTGTCTTCCAGGAACAAACGTT  
GACTTAGGAACCTTGGAATCTGAAGACCTGATCCCCCTCTTCAATGATGTAGAGTCTGCTCTGAACAAAAGTGAG  
CCCTTTCTAACCTGGCTGTAACTCACTACCATTGTAACCTGGATGTAGCCATGACCTTACATTTCTGGGCCTCTT  
GGAAAAAGTGATGGAGCAGAGCAAGTCTGCAGGTGCACCACTTCCCGCCTCCATGACTCGTGCTCCCTCCTTTTT  
ATGTTGCCAGTTTAATCATTGCCTGGTTTTGATTGAGAGTAACTTAAGTTAAACATAAATAAATATTCTATTTTC  
ATTTTCTGCAAGCCTGCGTTCTTGTGACAGATTATACAGAATTGTGTCTGCAGGATTGATTATGCAGAATACTTT  
TCTCTTTCTTCTCTGCTGCCCCATGGCTAAGCTTTATGGGTGTTAATTGAAATTTATACACCAATTGATTTTAAA  
CCATAAAAAGCTGACCACAGGCAGTTACTTCTGAGGGCATCTTGGTCCAGGAAATGTGCACAAAATTCGACCTGA  
TTTACAGTTTCAAAAACTGTATTGATGACAGTAGTACCAAATGCTTTAAAACTATTTAACTTGAGCTTTAAAAA  
TCATTGTATGGATAGTAAAAATCTACTGTATGGAATACAATGTAATTTTGAATCCAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1283**

MNPASAPPPFLPPPGQQVIHVTQDLDTDLLEALFNSVMNPKPSSWRKKILPESFFKEPDSGSHSRQSSTDSSGGHPG  
PRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQOSYDVTDLPPLPPGWEMTFTATGQRYFLNHIEKIT  
TWQDPRKAMNQPLNHNMLHPAVSSTPVPQRSMAVSQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNAL  
TTQQQQQKLRQLQRIQMERERIRMRQEELMRQEALCRQLPMEAETLAPVQAAVNPPMTTPDMRSITNNSDPFL  
NGGPYHSREQSTD SGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDFLDCLPGTNVDLGTL  
SEDLIPLFNDVESALNKSEPFLLWL

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**FIGURE 1284**

CTTCCTCTTTCACTCCGCGCTCACGGCGGCGGCCAAAGCGGCGGCGACGGCGGCGCGAGAACGACCCGGCGGCCA  
GTTCTCTTCTCCTGCGCACCTGCCCCGCTCGGTCAGTCAGTCGGCGGCGCGCCCGGCTTGTGCTCAGACCTC  
GCGCTTGGCGCGCCAGGCCAGCGGCCGTAGCTAGCGTCTGGCCTGAGAACCTCGGCGCTCCGGCGGCGCGGGC  
ACCACGAGCCGAGCCTCGCAGCGGCTCCAGAGGAGGAGGCGAGTGAGCGAGTCCGAGGGGTGGCCGGGCGAGGT  
GGTGGCGCGCGAAGATGGTTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCACCCAG  
CGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCGAAGAGAAGGCGTCTGTAGGACCCTGGTTATTGGCTCTC  
TTCATTTTTGTGTCTGTGGTTCTGCAATTTTCCAGATTATTCAAAGTATCAGGATGGGCGATGTGAAGTGACTGA  
CCTTAAGATGTTTCCATTCTCCTGTGAATTTTAACTTGAATCATTCTGATGTTTGATACCTGGTTGAAAACA  
ATTGAGTAAAGCATCTGCTCAGAAATGACTTTCCTATCATGCTTCATGTGTGATTCGAAGGTTTCTTCATGAGT  
CATTCCAAGTTTTCTAGTCCATACACAGTGCCTTGCAAAAAACACCACATGAATAAAGCAATAAAATTTGATTG  
TTAAGATACAGTAGTGGACCTACTTATTCAGTCAATTAAGAGTAAGTTTTTTTATGTGGTTATTAAACAGTAT  
GAACAATTAGTCTAACTCTGCATAGACAGGGTCTAGATTTTGTAAACCCAAATGTATAACTGCAGTTAGCTTAAA  
TTACAATTTGAAGTCTTGTGGTTTTTATATAGCTAGGCACCTTTATTACTCTTTTGAAGTGAAGCACACTCCCTT  
ATAGGTTTATGTAAGTGTCTGTAATAAGGTGCTTATAAATGGAACAACTACACAGCCTAGTTTGGCACAACCT  
TTAGCATCTAAAAAGTTTTTAAAGCTTCTAAATGTCTAATATAAAGGGAGATGCTTATAGCCACAACATCTATTT  
TACCAATATTGTTTCCATTACACTACCTTGGATTTTGCATGAGTGAGTATAGTAACCCAAGATGCCATAAAAAA  
AACTTGATCGTTTTCTGACTTAATTAGTTACTGTGGTTTCACTAAAAGCTACCGTGGTGGAGTGAAGTCAGTCAG  
GGAAGGTTTGTATGTTACATTTATTTACCCAGAACTATTTTAAATATATCAAAGGGGTTTACTATGCCAAACAA  
AATCTAGGGAAAAATACTGCTAAAAATGGATGCCTCATCAGAACATGCTGTTGAGTCCAATGTGCCATAAGACA  
TTTTAGCATGTTAAATAGCACTTTTAAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAT  
GCTTTTTCTAGATTAATGATTTTTTCAATCATTAGGGTACTAGACACATCAGCCTAAAGTGGCATCTGGAATTGAA  
TGGATTTACTGATAATGATCAGTCTTTAGTCTTCCCTTTGTTATATGACTTTTATAGGTTATGATTGATCAAATTT  
ACGTTTTACTAATGGTAAGGGTGAGGGTCTAGGGCAGGTTTTGGGTTTTCTAGTACTGTTGAAAAGTGAAGTA  
TTGGCTATTTGTATACTTAGCCATAAAGTGGTGAAGAAAAACCTGAGCAGTGTCTATGTATTAATGCGTTGGAAA  
GAAAGCTGCTTGTGTTTGCTTTGTTAATTGCCCTCAGGATATTTCTTTTAAATAAGCTGTTTTAAGAGGAACAGA  
AGGGAAATCTGCTACCTAGTCTATACACAGCGTGAACCTCACAGGGGGCTTCTGATACCCTCAAACATGGAGAAC  
AGTAAGGGAGCAGAGTGGTTAAGGACTTTCAGGAACCTAACTATTCTGGAATAAGGAATGAATCAACTGACCTTG  
GGCCAGCAGGTTTTTAACTAAATTGTTACTTGCTTTCTCAGCCAGTTAATCAGTCTCTGTACTTGTTCCTTTT  
TTGAAACAAGTGTCTTGGTTAACTAATTCTGTTTTATGGTTGTGCTAAATTCATAGCAGGTGCCTTATTCTTTGC  
TTTTAGTCAAACCATTCATATCAGAATTTTCTTGCTTTACTATAGATATTTGGCTTTAAGTTGTTGTTTGTGT  
TTTTTAATGTACAATGTTCTGATAAATTTGACTGTTAAATTGCTATAGCTAGCAATCATTTTACATATGTAAAAA  
ATTGCATTCCTTTTGTATTTTATGTGTAATTCACCAATTAAGTGCAGTTTATATTCAGGTTGGATTATGCATGTT  
TAGGTAAACGAAAGCTGTGTCTTACTTGATTTATCTTTAAAAATAAAGTTCCTGAATATTTGAAAAA  
AAAAAAAAAAAA

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**FIGURE 1285**

MVAKQRIRMANEKH SKNITQ RGNVAKTSR NAPEEKASVGPWLLALFIFVVC GSAIFQIIQSIRMG M

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**FIGURE 1286**

GCATGAGGAGACGTGTAGGGGCCGGGTTTCGGCCCTGGTGAACCTCTCACCCGAGCGGTTTCTCTTTCCGGGACAAC  
ATGGCGCCGTCCACGCCGCTCTTGACAGXX  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXGGAATCTGGGAAGAATTGCAAAGTCTGTATCTTTAGTAAGGATGGGACCTTG  
TTTGCTGGGGCAATGGAGAAAAAGTAAATATTATCAGTGTCTACTAACAAGGGACTACTGCACTCCTTCGACCTC  
CTGAAGGCAGTTTGCCTTGAATTCTCACCCAAAAATACTGTCTGGCAACGTGGCAGCCTTACACTACTTCTAAA  
GATGGCACAGCTGGGATACCCAACCTACAACCTTTATGATGTGAAACTGGGACATGTTTGAAATCTTTCATCCAG  
AAAAAATGCAAAATTGGTGTCCATCCTGGTCAGAAGATGAAACTCTTTGTGCCCGCAATGTTAACAATGAAGTT  
CACTTCTTTGAAAACAACAATTTTAACACAATTGCAATAAATTGCATTTGCAAAAAATTAATGATTTTGTATT  
TCACCTGGACCCCAACCATAACAAGTGGCTGTCTATGTTCCAGGAAGTAAAGGTGCACCTTCATTTGTTAGATT  
TATCAGTACCCCAACTTTGCTGGACCTCATGCAGCTTTAGCTAATAAAAGTTTCTTTAAGGCAGATAAAGTTACA  
ATGCTGTGGAATAAAAAAGCTACTGCTGTGTTGGTAATAGCTAGCACAGATGTTGACAAGACAGGAGCTTCCTAC  
TATGGAGAACAACCTCTACACTACATTGCAACAAATGGAGAAAGTGCTGTAGTGCAATTACCAAAAAATGGCCCC  
ATTTATGATGTAGTTTGGAAATCTAGTTCTACTGAGTTTGTGCTGTATATGGTTTTATGCCTGCCAAAGCGACA  
ATTTTCAACTTGAAATGTGATCCTGTATTTGACTTTGGAACCTGGTCCTCGTAATGCAGCCTACTATAGCCCTCAT  
GGACATATATTAGTATTAGCTGGATTGGAATCTGAGGGGACAAATGGAAGTGTGGGATGTGAAAACTACAAA  
CTTATTTCTAAACCGGTGGCTTCTGATTCTACATATTTTGCTTGGTGCCCGGATGGTGAGCATATTTAACAGCT  
ACATGTGCTCCCAGGTACGGGTTAATAATGGATACAAAATTTGGCATTATAGTGGCTCTATCTGCACAAGTAT  
GATGTGCCATCAAATGCAGAAATTATGGCAGGTTTCTTGGCAGCCATTTTTGGATGGAATATTCCAGCAAAAACA  
ATAACTTACCAAGCAGTTCCAAGTGAAGTACCCAATGAGGAACCTAAAGTTGCAACAGCTTATAGACCCCCAGCT  
TTAAGAAATAAACCAATCACCAATTCCAAATTGCATGAAGAGGAACCACTCAGAATATGAAACCACAATCAGGA  
AACGATAAGCCATTATCAAAAAACAGCTCTTAAAAATCAAAGGAAGCATGAAGCTAAGAAAGCTGCAAAGCAGGAA  
GCAAGAAGTGACAAGAGTCCAGATTTGGCACCTACTCCTGCCCCACAGAGCACACCACGAAACACTGTCTCTCAG  
TCAATTTCTGGGGACCTGAGATAGACAAAAAATCAAGAACCTAAAGAAGAACTGAAAGCAATCGAACAACCTG  
AAAGAACAAGCAGCAACTGGAAAACAGCTAGAAAAAATCAG



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**FIGURE 1287**

MQNWCPSWSEDETLCAENVNNEVHFFENNNFNTIANKLHLQKINDFVLSPPGPQPYKVAVYVPGSKGAPSFVRLYQ  
YPNFAGPHAALANKSFFKADKVTMLWNKKATAVLVIASTDVDKTGASYIGEOTLHYIATNGESAVVQLPKNGPIY  
DVVWNSSSTEFCAVYGFMPAKATIFNLKCDPVDFGTGPRNAAYYSPHGHILVLAGFGNLRGQMEVWDVKNYKLI  
SKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSILHKYDVPSNAELWQVSWQPFLLDGIFPAKTIT  
YQAVPSEVPNEEPKVATAYRPPALRNKPITNSKLHEEEPPQNMKPQSGNDKPLSKTALKNQRKHEAKKAQEAR  
SDKSPDLAPTPAPQSTPRNTVSQSIISGDPEIDKKIKNLKKKLKAIEQLKEQAATGKQLEKNQLEKIQKETALLQE  
LEDLELGI

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**FIGURE 1288A**

GGCCGTTGCTCCAGGGAGAACTGCAAATATCTTCATCCACCCCCACATTTAAAAACGCAGTTGGAGATAAATGGA  
CGCAATAACTTTGATTCAGCAGAAGAACATGGCCATGTTGGCCCAGCAAATGCAACTAGCCAATGCCATGATGCCT  
GGTGCCCCATTACAACCCGTGCCAATGTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCCTTT  
AATCCCTATCTGGGACCTGTTTCTCCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACA  
GGGAATCCGGGTGTCCCTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAG  
GTATGTCGAGAGTACCAACGTGGCAATTGCAACCGAGGAGAAAATGATTGTCGGTTTGCTCATCCTGCTGACAGC  
ACAATGATTGACACCAATGACAACACAGTCACTGTGTGTATGGATTACATCAAAGGGAGATGCTCTCGGGAAAAG  
TGCAAATACTTTTCATCCCCCTGCACATTTGCAAGCCAAGATCAAGGCTGCCCAATACCAGGTCAACCAGGCTGCA  
GCTGCACAGGCTGCAGCCACCGCAGCTGCCATGACTCAGTCGGCTGTCAAATCACTGAAGCGACCCCTCGAGGCA  
ACCTTTGACCTGGGAATTCCTCAAGCTGTACTTTCCCCCATTACCAAAGAGGCCTGCTCTTGAAAAAACCAACGGT  
GCCACCGCAGTCTTTAACTGGTATTTTCCAATACCAACAGGCTCTAGCCAACATGCAGTTACAACAGCATAACA  
GCATTTCTCCCACAGTTCCCATGGTGCACGGTGTACGCCAGCCACTGTGTCCGCAGCAAACAATCTGCCACA  
AGTGTTCCCTTCGCTGCAACAGCCACAGCCAACCAGATACCATAATATCTGCCGAACATCTGACTAGCCACAAG  
TATGTTACCCAGATGTAGAATTTTCATCACTAAACAATCATGTAAAGAGGAAAGGACAGTGTGCTTGGTTAGAG  
TAAAGGACGAGGTCATTAGCCATATTGTATATATCGTCAAGCAACACACACAAAAGTTCTCAGCCACAAGACAT  
CCACATATTGCATGTTAACCAGAAGAAAAGACAACATTTCCGGAAATCCACTGCACACTGTTGCCTATACACTT  
TGTAACATTTAATTGATATTTGTGCTGAGGTGATATTCCTGTCTAAAAGAACAACATTGTCTTTCTTTCTAGCAC  
AGAGTTATGCATTCAAAGATGCATACCTAGTTAGTTTCTATATATTTCATGCCATCTTGAAAAGACAGACTATGG  
TGTAACCATGATTCTATTATGTATTGGTACGTCTGTAGACCAAGATATAATTTTTTAAAAATAAGTTTATTTCTT  
TCAAGGTTTACAAATAACAAAGGTGCACCTTGTATTTAAATTTGCCATTATAGATGAGAGCGTGCATGCACAGTC  
ATTTTTGTTTAAAGAGTAATATTTTTAATGTAATAGATTGTAAGACGTGGTGAGGGAGGGATCTGACAGAGATGAA  
TGTGCCAAGCAAACCACAACCTGTGTATATTTTAAAGCACATCATGGCTTTAAGTACCATGTTGTTAAGGATTCT  
CATGAAGTGCCATAGACTGTACATCAAATTAGAGTATTATTTCTTCAGTGTTATTGTTTTAGAGCCACATTTTG  
TTGCATATTTGCTAGTACTAATCAGTCAAAGGGCACCATTCTTTTTTTTTTTTTTGAACCAAAGCTGTCTCAG  
AAATGGCCAATTTAACTTTACAGTAACAATAGACAGCACAACACAAAACCTCTCTCAATACAGATAAACTCACACAT  
ACTGGAGATATATATATAATAGATATATATAAAATTATTTTAAATGCATTGTAGTGTAAATTTATGCATACTATA  
CTGTATAACATGTTATTCAAAGGGATTGCCATTTCTGAGACACAGTAACAAAAAATGAGGAAATTATTTTGCT  
TCTATTTATAGCCTCTGTCAAAGTCAAAGACTATAAATGCTTTGCAAAAATGGTTTCACGTTTGCTTAAATGC  
TTCATCACAGTCACATTCAAATAGTGAATCTAAACAAAGAAGAAAGCAGCACTGTGCATCAGATGCATGATAAAC  
CAAAATATGAAAATGGGAAATGTTTAAATTAACCTAGTAATTGGGTGGGTTAAGTACATGGGTGAATTTTATATGT  
GATTTTTGTTTTGTTTTGTTTTGTTTCAGATTAAGTCTTATAGCCTTAGAAAGCCTTTTACAAAATTAAAAAAA  
AATAGATGTGCATTGATTTTTAAGAATGGAATCATCAAAGGAATTCCTTTTTTTGAGGTTTGGATGTTGCAGC  
TAGTAAAGGATATTTTTGCTCTGTTTCAGCAGTTCTAAAATTTGCTGAAGTAGGGGCCAGGTCACTGGTAGTTATA  
GTATGGAATGGGAGAAGTGAAAGTTCAGTTATAGAATTTCCATACTTCCAAGTTTACTGCAAGTTTTATGCTT  
GAGAGAGATGCTTTCTAATATAAGACTGATGTGTTGATTTTACTGATTGTACTGTACATCTATTAAAGCCTTAGA  
TTATTACATTACGGGTGGGAACCCATACCAATGTAATTTCAATCGTGTAAAGAAAGTAATGGTGACTTCACATGT  
TATTGTAGTTAGTTACATTATAGAATATTACTTATTTTCTTGTTAAATGTAGTTTTTTCATTTCCTACATTTAT  
TAGATTTTCAATTTCTATTAACAATTGAATACCATTTTCAGTTTATAGACTTGTTTTATTAGATTTTACCAATGAA  
TTTTTCAAATAACAAAAAAGTAGTTTTTCTTTCATAACATACTCAGTTTTGAATTACATGTAGTGTACATGA  
ATATTCGTATTGTTAACTAAATGATTTATATTTTACTGATTTAATATTACAGTGTAAGAATGTCAGTCATTGTTA  
GTTCTTGTCTAGTTTTTCATTAAGAACAAGATCTTTTATATGGATATCTTATAAATATATAATCATTGCTAAG  
TAAGAAGTTAAGTTGTTGCTATCGCAACAATCCTGGCAGACAATTGAGTAATATTTTGATGATTTATTTGTTTG  
TAATTAGTTATTATAAGAAGATCTAGATCCTAGATATTAGAATAAAATTTATTTTCTACTGTATCCATTTCAAAT  
GTTAAATATTGTTTAAATTTTTGAAATCCCTGAGTATCAGGCCTTGTTATAAATAAGCTGCATAATCAATAAA  
TAGAACAAGGGACTTTTTGTTGATAATCCAAATACTCAAAGTTTACGTAATGAAAATTATAGCGTGTGTGCAAC  
TCTTGAGGGTTGATTATGCTGCAATTTAGCATGTTGGAACGTCTAGGGAGAAGGTTGACTTTTTGCACTTCTGTA  
TATAGTCAAAGAGAGAAACCTGTATAATAGTAAGATCTTATTTTGAATAAAAACGTCTATAATTACAAGGAGTT  
TTGTTAAGGCTAATACAATGACAGACTGAGCAAAATGCTTGCAAAAGTGGCACAGAGTTAGCACTCCATACCCC

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**FIGURE 1288B**

TTCAAACATGTTGCTTTGCTTTCTTGTGGACAGCTTGTAGTTTGCCAGGATTTTTTCAGCTGGAAAGATACGCCA  
TCCTTTCAAACCCCTCATGACTGACAAAACTCCATGGGGCCAAATCTGCCTGAAGATCATTACCAAAAATAGCAG  
GTACTTCTACCATTAAGGTGAAATCATGGATCAGATATTCTTACATTTTTCAAACCTACTGCATGTTTAAACT  
TCAACAAAAAAGAGAGAAAGAACTATACTAAGAACATATATTATTCAGATCAGTTTCTGCCAATTTCAGTGGTT  
TATTGTTACAAAAAAATCTTCAAACAAGTATTGACTTTACAAAATTTAAATCATAAACAGGCAAACCAAACA  
GCACACTGTAGCTATAGTTGTTATGTGATTGTTTTTTAATTGCTGTAGGATCCTGTTCTTTCAGCAGGTGAAAA  
TAAACGCAGTTCAAATTTTCATGGTTTTAATTTTCAACTCAGAAGCACTCAAAAATGCAAAATGTGATAATGGGC  
ACTTGTTTAAAGAATTAGTGTATCCAGCCTTCACTCCAGCTGGTTAAAAATGTTGCACTTATCAGCAACCCTAC  
CACTTTCATCTGCTGAAAGGACAAATGTGCTTGGTTTTACTATTATGTAATCACAACCTACTTTCTGCTTGTAGT  
TGCTTAAATTATGTATTTTGTCTTGGGCTGCAATTTGTTTTATGCTTATTTTATTATTACTGCAGTAGTTGACT  
TTGCTGTATGAAAAATAAAGTGAAATTGCCCTAATAAACTTCTCTTTCTTAAGT

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**FIGURE 1289**

ATGTGGAGAAAGCCAGGGGACCCACAGAAGGCTGCCTGTGGCCACGTCATAGCAAAGGAACTTTATGGAGAGGAG  
CAGGAAGTCAGAGAGCCAGCTGAATTCAGAATCTGATAGGAGAGAAGATGTCAGTCCCTCTGGAAGAAGTTAGC  
AAAGTTGTGGCCTTGAATGGGAAGGGACAGAAGAGAGGTTTCAGGGTTCGAGGCTGAGGCAACAGGAACTGCCTG  
GAATGGAACTTGCCAAGGGGGATAGGAGGTGCAGGCCGGGGCCTCTTGGGAGAAAGAGCTGCACCATCTTCCAAC  
ACCTGTGGGAATGCTGTCTTGAAAACACTGCAGCAGCCAGTCATGAGCCAAGGAAGCAGACAAGAGCAACGAACA  
CAGGCATTGTGCATACAGACCTACCCAGAGAAGCCAGTATCCATGGCTTTGGAGAGTTCAAATATTCAATTTTCC  
GTTCAAAAAAAGGCCACGCCACCGGCTAAGAGTTCCGCCAGGGGGCCAGCTCTCAGGAGGCCTCTTCGGTGCCGC  
CAGCCTCCCGAAGTCATCCAAGGTAGCAGGCAAATCCGGCAGCAGCAAACTAGCTCGGATTTCGGCTTCGGTTTTT  
CTCCTGGCCGGCGCCACAGGCCCCCTCCTCCCGGGGCGGGCTCCTCGGCCTCCTTCTCAACCTCAGCCCCGCGCGC  
CGACCCTTCGGCACCTTCCCGCCCCGTCTCGTACTGTCGCCGTACCGCCGCGGCTCCGGCCCCTGCCCCGATG  
GCTCTGTGCAACGGAGACTCCAAGCCTTGGGCTCCGCGGCGGTTAGGCCGTTCTGGACGAACCCCTCGGAGCTG  
CACTGTCTTCCCCCTCCCCAACGCCCTGCAGGCCCGCGTGAGGGCTGGTGGCCCCAGGGTCGCGCACTCCGTT  
CTCCTCCCCGCTTCCTTCTCAGAGAGGAAAGGGTGTGTGTCCAGGTCCCGCCTCCGTCCAGCTTGCTCCCTGTC  
GAGCTTGCTGTTTTGCGGGTAACCCGCTTCCCCGCTTTGGGGTCCCTCCCCGGGACGCGAGCCGTGCCAGCTC  
GCCCGAGGCCTGGGCAGTCCGGAGTTCCGGAGTGCTGGAAAAGTTGCCGCCTTGACGTACCCGGCGGGGAGAGCA  
CGTTTGACCGCTGCTGCTCATCTCTCCTCCAACCTCACTTTTCTTAGACCGTTCCTCTTACTTTTCGTCCCGCTTT  
GAATTGGGCACCTTCGCTTTCACCTCTGTATTAAAAATTTTCATTGGCCTGGAGTTCTTTCTGA

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**FIGURE 1290**

AGGCATAGCAAATGAATCTAAAAAGTTATATGGAGCACAGTTCCACCCTGAAGTTGGCCTTACAGAAAATGGAAA  
AGTAATACTGAAGAATTTCCTTTATGATATAGCTGGATGCAGTGGAACCTTCACCGTGCAGAACAGAGAACTTGA  
GTGTATTCGAGAGATCAAAGAGAGAGTAGGCACGTCAAAAGTTTTGGTTTTACTCAGTGGTGGAGTAGACTCAAC  
AGTTTGTACAGCTTTGCTAAATCGTGCTTTGAACCAAGAACAAGTCATTGCTGTGCACATTGATAATGGCTTTAT  
GAGAAAACGAGAAAGCCAGTCTGTTGAAGAGGCCCTCAAAAAGCTTGGAATTCAGGTCAAAGTGATAAATGCTGC  
TCATTCTTTCTACAATGGAACAACAACCTACCAATATCAGATGAAGATAGAACCCACGGAAAAGAATTAGCAA  
AACGTTAAATATGACCACAAGTCCTGAAGAGAAAAGAAAATCATTGGGGATACTTTTTGTTAAGATTGCCAATGA  
AGTAATTGGAGAAATGAACTTGAAACCAGAGGAGGTTTTCTTGCCCAAGGTACTTTACGGCCTGATCTAATTGA  
AAGTGCATCCCTTGTTGCAAGTGGCAAAGCTGAACTCATCAAAACCCATCACAATGACACAGAGCTCATCAGAAA  
GTTGAGAGAGGAGGAAAAGTAATAGAACCTCTGAAAGATTTTCATAAAGATGAAGTGAGAATTTTGGGCAGAGA  
ACTTGGACTTCCAGAAGAGTTAGTTTCCAGGCATCCATTTCCAGGTCCTGGCCTGGCAATCAGAGTAATATGTGC  
TGAAGAACCTTATATTTGTAAGGACTTTCTGAAACCAACAATATTTTGAAAATAGTAGCTGATTTTCTGCAAG  
TGTTAAAAAGCCACATACCCTATTACAGAGAGTCAAAGCCTGCACAACAGAAGAGGATCAGGAGAAGCTGATGCA  
AATTACCAGTCTGCATTCACTGAATGCCTTCTTGCTGCCAATTAAAACCTGTAGGTGTGCAGGGTGAAGTGTCTC  
CTACAGTTACGTGTGTGGAATCTCCAGTAAAGATGAACCTGACTGGGAATCACTTATTTTTCTGGCTAGGCTTAT  
ACCTCGCATGTGTCACAACGTTAACAGAGTTGTTTATATATTTGGCCCACCAGTTAAAGAACCTCCTACAGATGT  
TACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTTGAGGCCCATACATTCTCAG  
GGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTACATTTTGATCGGGACCCACT  
TCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTTCGAACCTTTATTACTAGTGACTTCATGACTGGTATAACC  
TGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAGATTAAGAAGATTCTTGGTAT  
TTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAAGTACTGAGTGGGAGTAATAAACTTC

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**FIGURE 1291**

GACCCTTTTCACAACATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAG  
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAGAAGAAGATCCGCACGTCACCCACC  
TTCCGGCGGGCCGAAGACACTGCGACTCCGGAGACAGCCCAGATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAG  
CTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACA  
CTTGTGTTTCATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGAT  
GTGGCCAAGGTCAACATCCTGATTCCGGCCTGATGGAGAGAAGAAGGCATATGTTCGACTGGCTCCTGATTACGAT  
GCTTTGGATGTTGCCAACAATAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATAT  
ATATCTTTTCACCAT

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**FIGURE 1292A**

GATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATAC  
TATGGTGCTTTTATCAAAAAGAACCACAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTTGTGGTGCT  
GGCTCTGTACCGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGGAATGCATACATCTGCAGG  
GAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCATCGAGATATTAAAGGGCAAAATGTCTTG  
CTGACTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGG  
AATACTTTTCATTGGAACCTCCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATAT  
GATTTCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGAC  
ATGCACCCCATGAGAGCTCTCTTCTCATCCCCCGGAACCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAA  
AAATTCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAG  
CATCCATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAG  
AAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCA  
GGAGAGCCCAGCTCCATCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCC  
AACAAGGAGCGTTCTGAGGCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAATGAGGAGCACAAGCGGC  
AGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGGCGGCTGGAGGAGCAACAAGGC  
GAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGG  
AGAGGAGGCGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCT  
TGCAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAG  
CAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTTCCCTTCAGCATCAGCGGCAGGAGCAGA  
GGCCTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATGAGTCTTAGTGAGAAGCCAGCATGGGCCAAGG  
AGGTAGAAGAACGGTCAAGGCTCAACCGGCAAAGTTCCTTCCCATGCCTCACAAGGTTGCCAACAGGATATCTG  
ACCCCAACCTGCCCCCAAGGTCGGAGTCTTTCAGCATTAGTGGAGTTTCAGCCTGCTCGAACACCCCCCATGCTCA  
GACCAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCCTCCAGTCAG  
TGCACGAGCAGCCACAAAGGGCCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCTGGAGATGC  
CACGCCAGAACTCAGATCCCACCTCGGAAAATCCTCCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTT  
GGTTACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGAACAATTCTATATCCCCAGCATTAGCCAGAA  
AGAATTCTCCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCTGATC  
TCCGGAGAACTGAGCCCATCTTGAGAGCCCCTTGACAGGAGCAGCAGTGGCAGTTTCTCCAGCTCCAGCACCC  
CTAGCTCCCAGCCCAGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACCAGAGTTC  
GAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTCCCCATGAGCCTGCGAAGGTGAAACCAGAAGAATCCAGGG  
ACATTACCCGGCCAGTCGACCAGCTAGCTACAAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAAC  
TAAGAGAACTCCGGATTGAAGAAACAAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGT  
CAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTACGGACATAC  
CCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGG  
AGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAG  
AGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGA  
GCCATTCTCCAGCTGGAACCCGACTGAGGGACTGGGGCGCGTCTCAACCCATTCCAGGAGATGGACTCTGGGA  
CTGAATATGGCATGGGGAGCAGCACCAAGCCTCCTTCACCCCTTTGTGGACCCAGAGTATACCAGACGTCTC  
CCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGCAGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAAC  
AGGCCAAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCCAACCAACATTCCGGCCTCATAGCGACA  
CACCAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGGTGTAAACCTTC  
TGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAAGTCTATAATCTGATCAACCGGA  
GGCGATTTTCAGCAGATGGATGTGCTAGAGGGACTGAATGTCTTGTGACAATTCAGGAAAGAAGAATAAGCTAC  
GAGTTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGA  
TCACTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTTAAATATGAAAGGATCAAATTTTTTGGTGATTG  
CCTTAAAGAATGCTGTGGAAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTTAAGTCTTTTG  
CAGATCTCCAGCACAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTT  
CACACACTGGTTTCCATGTAATTGATGTTGATTTCAGGAAACTCTTATGATATCTACATACCATCTCATATTTCAGG  
GCAATATCACTCCTCATGCTATTGTCATCTTGCCTAAAACAGATGGAATGGAAATGCTTGTGTTGCTATGAGGATG

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**FIGURE 1292B**

AGGGGGTGTATGTAAACACCTATGGCCGGATAACTAAGGATGTGGTGCTCCAATGGGGAGAAATGCCCACGTCTG  
TGGCCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAACAGGAC  
ATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTT  
TTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCTCAACAGAAATTCATGATGAAGTGGT  
AACAGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAAGAACATAACTCATGTGGACTTATG  
CCAGTCTAGAGGCAGAATCAGAAGGCTTGGTTGAACATATCGCTTTCCCTTTTTCTCTCCCTCCGCCCCCTCCCA  
GTACAGTCCATCTTTCAATGTTGCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCC  
CAAGAATGCTGCCTTGCTGTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAAACAAATATTGTG  
TGCTCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAA  
GAATGGGGAAAGAATGCATACTGCGAAAATGAGTCTTTTAAATTCTGTCTGCCTACTAGTTTTAAGTATATGGTA  
TGTTGTAAAATTTCCAATGATGAGAGACAGCACAATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTAC  
ATAGTGGAGTAATTTAAGAACTCTCTTGCCCTTCACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGA  
ATTTTTAAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAAACTACTAGC  
CTTAAACTACTAGTCTAATAAAATCAACTACCACTTTTGTGAATCTGACAGGCCACATTTTTATATGGCCCTTT  
ACAGAAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAAC  
ACAACCTTTCCCTCAGCTATTATGCAACAGATCAGGGAAGAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGC  
TTCTGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCAGCTAAGAGGTCACCTGGTTTGGGC  
TTCATTAGGACTGAGACTTTGTTGAGTTCTTTCTGGGACTTGAGAGTGGATGATATTCAGGCTCTGAACATTCC  
CAGCGCTCTCCCGAGGGTGCCACTTTCTCAAGATGAAACTGTGACTGAAAAAATTAATAATAAATGTTTCTGAG  
CTGCCCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCAT  
TGGCTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTTGAACCCCTAATCACTTTACCTTCTCTCC  
AAATTACCCAACATACGGTAACAACATTTGTGCAGAAGTATGTATGTATTTAGTTTCAGGTTGACTTGTGTCTCT  
ATAAATCTTACTCAATGATTTGAACCTT



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**FIGURE 1293**

MPHKVANRISDPNLPPrSESFSISGVQPARTPPMLRPVDPQIPHLVAVKSQGPALTASQSVHEQPTKGLSGFQEA  
LNVTS HRVEMPRQNSDPTSENpPLPTRIEKFDRSSWLRQEEDIPPKVPQRTTSPALARKNSPGNGSALGPRLG  
SQPIRASNPDLRRTEPILESP LQRTSSGSSSSSSSTPSSQPSSQGGSQPGSQAGSSERTRVRANSKSEGSFVLPHE  
PAKVKPEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKKVTDYSSSSEESSESSEEEEDGESET  
HDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISREGTLMIRETSGEKKRSGHSDSNGFAG  
HINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDP RVYQTSPTDEDEEDEESSAAA  
LFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSG  
QGKVYNLINRRRFQQMDVLEGLNVLVTISGKKNKLRVYYLSWLRNRILHNDPEVEKKQGWITVGDLEGCIHYKV  
KYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNS  
YDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVLQWGEMPTSVAYIHSNQIMGWGEK  
AIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW

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**FIGURE 1294**

GGGGGCAAAAAAAGAAGCAAGTTCTGAAGTTCACCTTTGATTGCACCCACCCTGTAGAATCATGGATGCTGCCA  
ATTTTGAGCAGTTTTTGAAGAAAGGATCAAAGTGAACGGAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCA  
TCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCA  
AAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTAC  
GTTACTTCCAGATTAACCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTCAATTTATCTGGAAAATTTTGT  
ATGAGTTCTTGAATAAACTTGGGAACCAAAATGGTGGTTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAA  
AATTGGAAATCATAGTCAAAGGGCTTCCTTGGTTCGCCACTCATTTATTTGTAACCTTGACTTCT

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**FIGURE 1295**

ATGAAGAGAGTGTGTCAGCAGAGGTCGCCTCCAGAGGAGGTGCTGTGGAGACTGAGCGCATAGCACCCCTTAAAATCC  
TGGGACCAGGGCTTCTCCACGGGCTTGCTGAAGAAGGGAGAAAAAGAACAGCAAGAAGCGATTGAACACATTGAT  
GAAGTACAAAATGAAACAGACAGACTTAATGAACAAGCCAGTCCCCTTACAAAGAAACAGACAGATGATTTAGGT  
GATAATGACGGTGCTGAAGATGAAGATATTCGGGACAGTGGGGGTCCCAAACCAGTGATGGTGTATATCCATGGT  
GGCTCATATATGGAAGGTACTGGAAATTTATATGATGGAAGTGTCTTGGCAAGTTATGGCAATGTGATCGTCATC  
ACAGTCAACTATCGACTTGGAGTACTCGCTCTACATCCGAGTTATGATTCAGGAGCCACTGGGCAGGAAAATGTG  
AGGACACAGAGGAAGCTGACTGAAGCAGGTAGACGAGAAGAGGAAACGGGTGTGCGACGGCGGGGGTCGCTGCC  
CGTCTGTCCGTCGGCTTCTCCAGCGGTAAAAGGAGAGCTGATGGAAGTGTGAATCAAATCGAAGGTGAAGCCACC  
CCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTTCTGGTCACATAATTATCTGTCAAACACTTAC  
TACATGTCACGCACTAAGGTTGCCATGATGAGCCGGACAGAGCTGGCCTTGGTACTTATGGAGCTCATTCCCAGT  
GTGGATACTGACACGTGA

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**FIGURE 1296**

TATTTTGTGAGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT  
ATTGTTGACTACCAACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTTAAATCTGAGAAGCAGTTTG  
TCAAATTGTAACCTGATTCCGAGCAGGAAAATATCTCCATGGTGGAAGGGTTAAATTTGATTTCGGAGATGGAA  
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC  
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC  
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT  
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC  
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC  
AAAGGCGACACTTTTGTGGACTGCACTGGTGTGATATTAAATCTCAGGCATAAAATTTGTTGAGCATGATGCT  
GTAGAGGGAATCTTAATTGTTACCGTGGAAGACTACGCTGGAAGAACTGTGTGCTGCAGTGTGAGACGACCGGA  
GTCACAGTGCGGACATCAGCAGAGTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGTGGTATAGAA  
ATCTACCCTGGGAGTCAGTGACCCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC  
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT  
GTTGTCTTGGTGAAACCTACAATCTTCTCTGACCTGCAAGAAAATGCTGAAGATGGAACTGAAGAAAATAAAGCG  
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT  
GGTAAAATGGAGCTTTGTGCAAGAACTGACCCCTCTGAGCAAGTTCGAGGGAAAATGTGAAATTGTAAATGAACATA  
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGGATCACGCAAGCTGATGAC  
AACTTAATGTACAGGAGATGTTTGTGGGATTGTGGGGAACAGTTCAAGTGGAAATGGGAAAGGTAGTTTGGC  
ACATTTCTTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA  
CTGCTGCCATTGTAGTTTGTCTGATTGTCTGATTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA  
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA  
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAAC  
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGGAATGCAAGACTAGTGATAAAATG  
CAATAGGTGTATATGTACAGCATTCTTCTTAGAGTTGCCTTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC  
CTGTATTTGCATAATACTTGTCTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA  
TTGAGACGTCAATGGGACGCATTTTCTGTTGAGCTATGCAGTCGTCAAACAGCGATAGACAGCATAGGAGGTT  
TGAAGCAGAAATGAAATGTGTTATTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG  
ATTAAAAACAAGGTATTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG  
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT  
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC  
TTGAGCCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC  
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCGTTACAGTATTCTGATTATATTACTGACACAGTCAAA  
ATGATTAACTGTACAACCTGTATCTGCTGGGTGTTCTTGTTATCATATTGTAAACAGCTTTAAAAATATTTATA  
TTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATTTATAGTGATGAAATAACAAAA

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**FIGURE 1297**

GTAGCCATGGCGGCCATGAGTTTGTTCGGCGGGTTTCGGTTACTGCGGTGGCAGCTCTGTCTGGCCGGCCCCCTT  
GGCACTCGCCTCGGATTTGGGGGCTTCCTCACTCGTGGCTTTCGAAGGCTGCTGCTCCTGTTGACACAGTGGA  
GACCATGGGAAAAGACTATTTGTCATCAGACCTTCTAGATTCTATGACAGGCGTTTTTTGAAGTTATTGAGATTC  
TACATTGCATTGACTGGGATTCCAGTAGCAATTTTCATAACTCTGGTGAATGTATTCAATTGGTCAAGCTGAACTA  
GCAGAAATTCCAGAAGGCTATGTCCCAGAACACTGGGAATATTATAAGCATCCCATATCAAGATGGATTGCCCGT  
AATTTCTATGATAGTCCTGAAAAGATATATGAAAGAACAATGGCCGTCCTTCAGATTGAAGCTGAAAAGGCTGAA  
TTACGGGTAAAGGAGCTGGAAGTGCAGAAATTGATGCATGTGAGAGGAGATGGACCCTGGTATTACTATGAGACA  
ATTGACAAGGAACCTTATTGATCATTCTCCGAAAGCAACTCCTGACAATTAAGCCTTTTTTCTCCAAATACAAAG  
TATATTCTCTTTATTGGAAAATAAATTAATAAATATATTCTGTATTTTTTGCTCTCCGTGAAAAACAAAAGAGCCT  
CTGACATTACTGTCTCTCAGTGTTGGTTCAGATTGAGGCTTTTGTGTTGAGGAGTTTGGCTTCCAGTCCCCAAAGA  
AGGTTTAAAATGTACTAATAAAAACTGGAGAAATAGGAATTTGTGAACCCCTAAAATTGTAGCAACTTTGAAAGG  
TTAGTGTTTTATTACCTGACAAATGGAAGTTATAGAAGTCTAATAATGTTAAGCACCAGTAATTATAGTATTTT  
GTACAAATGCCTGTACTGTAGATGTCTGTATTATTGAGGGGCAACTCAGGATTTTAAGTTCCATAAAGTATTGAA  
CCAACCTCTAAAATGTTAACTCCTTAATAAACAGATTCTCAGTAAACAAATTTTAAAGTTAAAAAAAAAAAAAAAAA

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**FIGURE 1298**

MAAMSLRRVSVTAVAALSGRPLGTRLGFGGFLTRGFPKAAPVRHSGDHGKRLFVIRPSRFYDRRFLKLLRFYI  
ALTGIPVAIFITLVNVFIGQAELAEIPEGYVPEHWEYYKHPISRWIARNFYDSPEKIYERTMAVLQIEAEKAELR  
VKELEVRKLMHVRGDGPWYYYETIDKELIDHSPKATPDN

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**FIGURE 1299**

GTTTTGCCAGTTATGCGAAAAACATGGCTGCGGCCGGTTTGGCCCTTCTTTGTAGGAGAGTTTCATCCGCCCTGAA  
ATCTTCCCGATCGTTAATAACTCCTCAGGTCCCTGCCTGCACAGGGTTTTTCTTAGTTTGTTCGCTAAGAGTAC  
ACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTT  
TGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA  
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCTTAGAGCAGGA  
GGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATTAGA  
TAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGACCTGGTGCTTG  
GAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGTATACCTTGGCACCTAAATAAAAG  
ATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAGACTGGAACGTGAGAAACGAGCCCG  
CATCAAAGCACGGAAGGAAAATTTAGAGAGAAAAGCAAAATTTCTTTAAAAAAGTTTCCACATCTTGCTGA  
AGCCCAAAAGTCAAGTCTTGTCTAAGATGTCTGAACTATTAAATTTACCATTTTGTCTTCTGAATAGTCTGTG  
TACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCGTTTTTTAGTCAAGTGACTTTACTAATCAGTTGTTT  
TAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGCTTCTAAAAATCAGGTATAAAGTTC  
AGATGAGATTCCCCTTTATAAATCTGACATTTAAGCAGGCTTTAAATGTACCTGCTACCTTAGAGTGTGAAG  
GTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAATAATAGTTTTACCTCTGTGTGAAT  
AGGCTATGAAGAGGATGTGGGTATTGCTGTATAAACGGAGGACTTTGATTCAAATAATGAGAAATACATTTA  
GTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAAATATTTCTGGAATGGCTAATTTTTATTAAATCTG  
TAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAGCAGTTCTACCAATCCACTGGTAAT  
TAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAGAGAAAATAGACATTTATACAAAAT  
TATAAATGCTTGTATAAGAATAAGTGCATTTCAAGGAAAGCACAACTTAATTTATAGAGCCAGTTAAAGCTT  
TAAAAATTTAAGTGGAAATTGAAATATGCAAAATGTATAAACATTCTACAAAAGATGGTCATTCTTTCTCTGA  
GTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGGGAACCTTTTCTCAAGGGCATTTTC  
TTTCTACACACTGCTTCCCTCCTTCTTTCATATTCTTGCTTGGAATCCACATCCCAACACTTGTGGTGACAACAT  
GACTGACTCCTAACATTGTGTTTTCTGATAACCCCTTTACATTGGAAGGGTCAAATAATCCTTCTGGAATCTTTA  
GCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAACAGTTGGCATCTGTGCAGCCACTT  
GTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCTGGATAACACAATTACACATATAAT  
TGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTGTCTGGAGATCCTTCACGAACAGCTT  
CTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCAATTTCTTGGAGAGTTCTCTGCACTGCATAGTAA  
TAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGCCATCGTGGACTGGAATTGCAGTGG  
TATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAAATGCTGTCAAACTGCAGTTTTGC  
AAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTCTGTCAAGTTTCTCTCTCTTTGCTCTAGTATTCC  
ACGGTGCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTGACATGCATTTTGTAGGTATGATCCAAAA  
TAGCTTGGAACTATCCAGTCTTCAACCATCCATTTTTTAGAGGTGAAATGGCCTCCATATTCTCCCTCGGAA  
CACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTGCTTTATCGCCATCTATTTCCATTAAATG  
TGCTTCCGTCACTCTTTCTACCACCATAACCAATAGCTGTAGGAAAAATCCACCTTGGGGCAGTCTCACCAGCAT  
AACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAACCTCACCTCCCCGTACACGCCGCCGC  
TCATGGCTGCTGCCGCGCGACTCCTACCCTAAGGGCTAACTGGCGAAGTGACTGCAGTGGCCGCGACTGCGAGT  
CTCGAGGAGCGATAGCCCCTGACTCCCTTAACCTTCCACCGCCACCCACCTCAGGCAACAAAGCGG

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**FIGURE 1300**

CCGCTTTGTTGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATCGCTCCTCGAGACTCGCAGTC  
GCGGCCACTGCAGTCACTTCGCCAGTTAGCCCTTAGGGTAGGAGTCGCGCCGGCAGCAGCCATGAGCGGCGGCGT  
GTACGGGGGAGATGAAGTTGGAGCCCTTGTTTTTGACATTGGATCCTATACTGTGAGAGCTGGTTATGCTGGTGA  
GGACTGCCCCAAGGTGGATTTCCTACAGCTATTGGTATGGTGGTAGAAAGAGATGACGGAAGCACATTAATGGA  
AATAGATGGCGATAAAGGCAAACAAGGCGGTCCCACCTACTACATAGATACTAATGCTCTGCGTGTTCCGAGGGA  
GAATATGGAGGCCATTTACCTCTAAAAAATGGGATGGTTGAAGACTGGGATAGTTTCCAAGCTATTTTGGATCA  
TACCTACAAAATGCATGTCAAATCAGAAGCCAGTCTCCATCCTGTTCTCATGTCAGAGGCACCGTGGAACTAG  
AGCAAAGAGAGAGAAACTGACAGAGTTAATGTTTGAACACTACAACATCCCTGCCTTCTTCCCTTGCAAACTGC  
AGTTTTGACAGCATTTGCTAATGGTCGTTCTACTGGGCTGATTTTGGACAGTGGAGCCACTCATACCACTGCAAT  
TCCAGTCCACGATGGCTATGTCTTCAACAAGGCATTGTGAAATCCCTCTTGCTGGAGACTTTATTACTATGCA  
GTGCAGAGAACTCTTCCAAGAAATGAATATTGAATTGGTTCCTCCATATATGATTGCATCAAAAAGAGCTGTTG  
TGAAGGATCTCCAGCAAACCTGGAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAAATTATATGTG  
TAATTGTGTTATCCAGGATTTTCAAGCTTCGGTACTTCAAGTGTGAGATTCAACTTATGATGAACAAGTGGCTGC  
ACAGATGCCAACTGTTTATTATGAATTCCCCAATGGCTACAATTGTGATTTTGGTGCAGAGCGGCTAAAGATTCC  
AGAAGGATTATTTGACCCTTCCAATGTAAAGGGGTATCAGGAAACACAATGTTAGGAGTCAGTCATGTTGTCAC  
CACAAGTGTGGGATGTGTGATATTGACATCAGACCAGGTCTCTATGGCAGTGTAATAGTGGCAGGAGGAAACAC  
ACTAATACAGAGTTTTACTGACAGGTGAATAGAGAGCTGTCTCAGAAAACCTCTCCAAGTATGCGGTTGAAATT  
GATTGCAAATAATACAACAGTGGAACGGAGGTTTAGCTCATGGATTGGCGGCTCCATTCTAGCCTCTTTGGGTAC  
CTTTCAACAGATGTGGATTTCCAAGCAAGATATGAAGAAGGAGGGAAGCAGTGTGTAGAAAGAAAATGCCCTTG  
AGAAAGAGTTCCCAAGCTTCTACCTTCCTTTTGTACCTTACGTTTCATAGCTTTAGTATACTCAGGAAAAGAAT  
GACCATCTTTTGTAGAATGTTTATACATTTTGCATATTTCAATTTCCACTTAAATTTTTTAAAGCTTTAACTGG  
CTCTATAAATTAAGTTTGTGCTTTTCCTTGAAATGCACTTATTCTTATTACAAGCATTTTATAATTTGTATAAAT  
GTCTATTTTCTCTAAATATTTTGCTTTTCAGTAAATGCTTTCCAACCTCTGTTTAGTGTATTAATTACCAGTGGAT  
TGGTAGAACTGCTTTTATTGACTAGTAAAGTTACTGCCTATGCTTTTTACCTTAGGCTTACAGAATTAATAA  
AAATTAGCCATTCCAGAAATAT



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**FIGURE 1301**

MSGGVYGGDEVGALVFDIGSYTVRAGYAGEDCPKVDFPTAIGMVVERDDGSTLMEIDGDKGKQGGPTYIIDTNAL  
RVPRENMEAISPLKNGMVEDWDSFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTLMFEHYNIPAFF  
LCKTAVLTAFANGRSTGLILDGATHHTAIPVHDGYVLQOGIVKSPLAGDFITMQCRELFQEMNIELVPPYMIAS  
KEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQVSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAE  
RLKIPEGLFDP SNVKGLSGNTMLGVSHVTTSVGMCIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPS  
MRLKLIANNTTVERREFSSWIGGSILASLGTFOQMWISKQYEYEGGKQCVERKCP

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**FIGURE 1302A**

AGAGTACGTGTTTACAGATAAACTGGTACACTGACAGAAATGAGATGCAGTTTCGGGAATGTTCAATTAATGG  
CATGAAATACCAAGAAATTAATGGTAGACTTGTACCCGAAGGACCAACACCAGACTCTTCAGAAGGAACTTATC  
TTATCTTAGTAGTTTATCCCATCTTAACAACCTTATCCCATCTTACAACCAGTTCCTCTTTCAGAACCAGTCTCTGA  
AAATGAACTGAACTAATTAAAGAACATGATCTCTTCTTAAAGCAGTCAGTCTCTGTACACTGTACAGATTAG  
CAATGTTCAAACCTGACTGCACTGGTGATGGTCCCTGGCAATCCAACCTGGCACCATCGCAGTTGGAGTACTATGC  
ATCTTCACCAGATGAAAAGGCTCTAGTAGAAGCTGCTGCAAGGATTGGTATTGTGTTTATTGGCAATTCTGAAGA  
AACTATGGAGGTTAAACTCTTGGAACCTGGAAACGGTACAACTGCTTCATATTCTGGAATTTGATTTCAGATCG  
TAGGAGAATGAGTGTAATTGTTTCAGGCACCTTCAGGTGAGAAGTTATTATTTGCTAAAGGAGCTGAGTCATCAAT  
TCTCCCTAAATGTATAGGTGGAGAAATAGAAAAACCAGAATTCATGTAGATGAATTTGCTTTGAAAGGGCTAAG  
AACTCTGTGTATAGCATATAGAAAATTTACATCAAAAGAGTATGAGGAAATAGATAAACGCATATTTGAAGCCAG  
GACTGCCTTGCAGCAGCGGGAAGAGAAATTGGCAGCTGTTTTCCAGTTTCATAGAGAAAGACCTGATATTACTTGG  
AGCCACAGCAGTAGAAGACAGACTACAAGATAAAGTTCGAGAACTATTGAAGCATTGAGAATGGCTGGTATCAA  
AGTATGGGTACTTACTGGGGATAAACATGAAACAGCTGTTAGTGTGAGTTTATCATGTGGCCATTTTCATAGAAC  
CATGAACATCCTTGAACCTATAAACAGAAATCAGACAGCGAGTGTGCTGAACAATTGAGGCAGCTTGCCAGAAG  
AATTACAGAGGATCATGTGATTTCAGCATGGGCTGGTAGTGGATGGGACCAGCCTATCTCTTGCCTCAGGGAGCA  
TGAAAACTATTTATGGAAGTTTGCAGAAATTGTTTCAGCTGTATTATGCTGTGCTATGGCTCCACTGCAGAAAGC  
AAAAGTAATAAGACTAATAAAAAATATCACCTGAGAAACCTATAACATTGGCTGTTGGTGATGGTGCTAATGACGT  
AAGCATGATACAAGAAGCCCATGTTGGCATAGGAATCATGGGTAAAGAAGGAAGACAGGCTGCAAGAAACAGTGA  
CTATGCAATAGCCAGATTTAAGTTCCCTCTCCAAATTGCTTTTTGTTTCATGGTCATTTTTATTATATTAGAATAGC  
TACCCTTGATACAGTATTTTTTTTATAAGAATGTGTGCTTTATCACACCCAGTTTTTATATCAGTTCTACTGTTT  
GTTTTCTCAGCAAACATTGTATGACAGCGTGACCTGACTTTATACAATATTTGTTTTACTTCCCTACCTATTCT  
GATATATAGTCTTTTTGGAACAGCATGTAGACCTCATGTGTTACAAAATAAGCCACCCTTTATCGAGACATTAG  
TAAAACCGCCTCTTAAGTATTAAACATTTCTTTATTGGACCATCCTGGGCTTCAGTCATGCCTTTATTTTCTT  
TTTTGGATCCTATTTACTAATAGGGAAAGATACATCTCTGCTTGGAATGGCCAGATGTTTGGAACCTGGACATT  
TGGCACTTTGGTCTTCACAGTCATGGTTATTACAGTCACAGTAAAGATGGCTCTGGAACTCATTTTTTGGACTTG  
GATCAACCATCTCGTTACCTGGGGATCTATTATATTTTATTTTGTATTTTCCTTGTTTTATGGAGGGATTCTCTG  
GCCATTTTTGGGCTCCCAGAATATGTATTTTGTGTTTATTCAGCTCCTGTCAAGTGGTTCTGCTTGGTTTGCCAT  
AATCCTCATGGTTGTTACATGTCTATTTCTTGATATCATAAAGAAGGTCTTTGACCGACACCTCCACCCTACAAG  
TACTGAAAAGGCACAGCTTACTGAAACAAATGCAGGTATCAAGTGCTTGGACTCCATGTGCTGTTTCCCGGAAGG  
AGAAGCAGCGTGTGCATCTGTTGGAAGAATGCTGGAACGAGTTATAGGAAGATGTAGTCCAACCCACATCAGCAG  
ATCATGGAGTGCATCGGATCCTTTCTATACCAACGACAGGAGCATCTTGACTCTCTCCACAATGGACTCATCTAC  
TTGTTAAAGGGGAGTAGTACTTTGTGGGAGCCAGTTCACCTCCTTTCTTAAATTCAGTGTGATCACCCTGTTA  
ATGGCCACACTAGCTCTGAAATTAATTTCCAAAATCTTTGTAGTAGTTTCATACCCACTCAGAGTTATAATGGCAA  
ACAAACAGAAAGCATTAGTACAAGCCCCTCCCAACACCCTTAATTTGAATCTGAACATGTTAAAATTTGAGAATA  
AAGAGACATTTTTCATCTCTTTGTCTGGTTTGTCCCTTGCTTATGGGACTCCTAATGGCATTTCAGTCTGTTG  
CTGAGGCCATTATATTTTAAATATAAATGTAGAAAAAGAGAGAAATCTTAGTAAAGAGTATTTTTTAGTATTAGC  
TTGATTATTGACTCTTCTATTTAAATCTGCTTCTGTAAATTATGCTGAAAGTTTGCCTTGAGAACTCTATTTTTT  
TATTAGAGTTATATTTAAAGCTTTTCATGGGAAAAGTTAATGTGAATACTGAGGAATTTTGGTCCCTCAGTGACC  
TGTGTTGTTAATTCATTAATGCATTCTGAGTTTCACAGAGCAAATTAGGAGAATCATTCCAACCATTATTTACTG  
CAGTATGGGGAGTAAATTTATACCAATTCCTCTAAGTGTACTGTAAACACAGCCTGTAAAGTTAGCCATATAAATG  
CAAGGGTATATCATATATACAAATCAGGAATCAGGTCCGTTACCCGAACCTCAAAATGATGTTTACTAATATTTT  
TGTGACAGAGTATAAAGACCCTATAGTGGGTAAATTAGATACTATTAGCATATTATTAATTTAATGTCTTTATCA  
TTGGATCTTTTGCATGCTTTAATCTGGTTAACATATTTAAATTTGCTTTTTTCTCTTTACCTGAAGGCTCTGTG  
TATAGTATTTTCATGACATCGTTGTACAGTTTAACTATATCAATAAAAAGTTTGGACAGTATTTAAATATTGCAA  
TATGTTTAAATTATACAAATCAGAATAGTATGGGTAAATTAAATGAATACAAAAAGAAGAGCCTCTTTCTGCAGCCG  
ACTTAGACATGCTCTTCCCTTTCTATAAGCTAGATTTTAGAATAAAGGGTTTCAGTTAATAATCTTATTTTCAGG  
TTATGTCTACTAACTTATAGCAAACCTACCACAATACAGTGAGTTCTGCCAGTGTCCAGTACAAGGCATATTTCA  
GGTGTGGCTGTGGAATGTAAAAATGCTCAACTTGTATCAGGTAATGTTAGCAATAAATTAATGCTAAGAATGAT